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The CHEMIST and DRUGGIST MARCH 28, 1942

The
# CHEMIST AND DRUGGIST
for RETAILER - WHOLESALER - MANUFACTURER

Established 1859 28 Essex Street, Strand, London, W.C.2 Registered as a Newspaper

No. 3242
VOL. CXXXVII MARCH 28, 1942 Annual Subscription (with Diary) 25/-. Single Copies 9d.

TRADE MARK **'MERTHIOLATE'** BRAND

*Sodium Ethyl Mercuri Thiosalicylate*

'Merthiolate' is particularly distinguished by its low toxicity and high bacterial efficiency. It is non-irritating in the dilutions recommended, non-staining and stable in solution. 'Merthiolate' Preparations meet every requirement of the effective germicide.

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SUPPOSITORIES AND CREAM

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**BASINGSTOKE AND LONDON**

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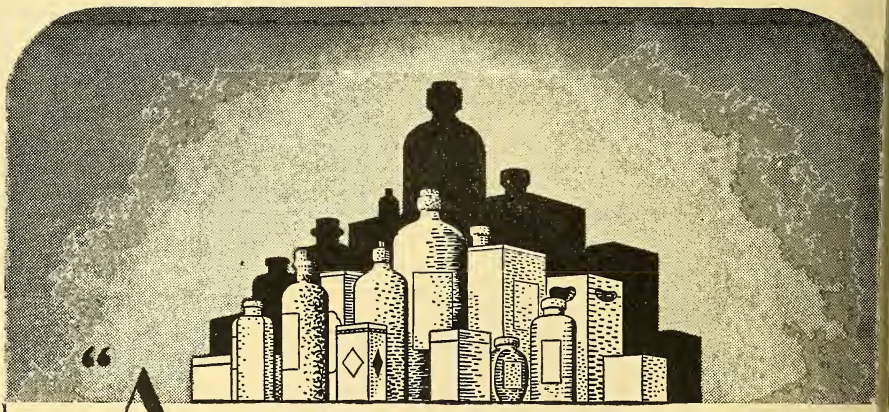

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*Thus does GOODWILL increasingly grow on a sound foundation.*

**BULK DRUGS ★ DISINFECTANTS**
**TOILET PREPARATIONS ★**
**★ PACKED PHARMACEUTICALS**

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# The story of a shadow

One day a group of workers tried out an experimental contrast medium with which they had high hopes of obtaining a radiograph of the gall bladder. They failed. The gall bladder did not cast a shadow. But the urinary tract did. It showed up so well that, with the new end in view, seventy-two allied contrast media were synthesized and tried. In 1931 the work culminated in the introduction of the substance now known as iodoxyl.* And, ever since 1931, this substance has held first place in intravenous pyelography, for urologists find that no other gives so dense a shadow of the renal pelves and ureters.

But war had added another episode. For many years this substance — like another similar substance now known as diodone† — was imported from Germany. Today, 'Pyelectan' and 'Pyelosil' (identical with the formerly imported products) are manufactured at Greenford by Glaxo Laboratories Ltd. Another advantage for which your customer, the doctor, can thank large-scale British pharmaceutical production.

*The disodium salt of N-methyl-3.5-diiodo-4-pyridone-2:6-dicarboxylic acid.
†The diethanolamine salt of 3:5-diiodo-4-pyridone-N-acetic-acid.

## PYELECTAN

BRAND OF IODOXYL INJECTION FOR INTRAVENOUS PYELOGRAPHY

**PYELECTAN (Retrograde)**
BRAND OF IODOXYL COMPOUND FOR RETROGRADE PYELOGRAPHY

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BRAND OF DIODONE INJECTION FOR EXCRETION PYELOGRAPHY

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*TO ALL OUR CUSTOMERS*

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## AN URGENT APPEAL

In our endeavour to make the best possible use of available labour, it has now become urgently necessary for us to make the following appeal to all our customers when placing their orders for MACLEANS PRODUCTS :—

1. **PLEASE** ORDER YOUR REQUIREMENTS OF **ALL** OUR PRODUCTS **AT THE SAME TIME.**
2. ORDER SUFFICIENT QUANTITIES OF EACH PRODUCT TO COVER YOUR PROBABLE SALES FOR **TWO TO THREE MONTHS.**

A large number of our customers have expressed their appreciation of our efforts to maintain regular supplies and prompt deliveries, and with your kind help and wholehearted co-operation we are hopeful of overcoming our present difficulties.

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# Crookes' Halibut Oil

## Shortage of Capsules

OWING to a Government restriction on Glycerine and Gelatine, and the enormous demand in the early winter months, our supplies of *capsules* have been very severely reduced. Most of the stock available, therefore, has been divided up into the four standard bonus parcels A, B, C, D, and the all-capsule parcels, E and F, have been discontinued. By this means a large majority of Chemists will continue to benefit by bonus in kind and the scheme will operate as long as supplies last.

It is possible that from time to time we may be able to supply small quantities of *capsules only* but orders for these will not receive bonus in kind and no delivery date can be guaranteed.

*There is no shortage of the oil itself,* the supply of which is under Government control, and we advise Chemists to draw their customers' attention to this fact. Sooner or later the public will have to accustom itself to taking its vitamin treatment in this form, and the refinement in the form of capsules must be dispensed with in order to release the Glycerine and Gelatine for more essential purposes.

Advertisements in the public press will announce the shortage and will support the chemist who may have stocks of oil but not of capsules.

### EXTRA 2½% BONUS

*Crookes' War Savings Certificate*
*Extra Bonus Scheme*

An extra bonus of 2½%—payable in National Savings Certificates—is now available to chemists who are supporters of the Chemists' Friends Movement who hold or will buy at least one Certificate. Write to us for details.

**CROOKES' HALIBUT OIL**
**Standard Bonus Parcels**
(Drops and Capsules)

| | Bonus | Sell | £ | s. | d. |
|---|---|---|---|---|---|
| PARCEL A = 3 DOZEN | | | | | |
| 24 x 5 c.c. Drops | 2 | 2/- | 2 | 8 | 0 |
| 12 x 25 Capsules | 1 | 2/6 | 1 | 10 | 0 |
| | | | 3 | 18 | 0 |
| Less 25% | | | | 19 | 6 |
| | | | 2 | 18 | 6 |
| ,, 10% | | | | 5 | 10 |
| *Amount of cash with order | | | *£2 | 12 | 8 |
| PARCEL B = 3 DOZEN | | | | | |
| 18 x 5 c.c. Drops | 2 | 2/- | 1 | 16 | 0 |
| 18 x 25 Capsules | 1 | 2/6 | 2 | 5 | 0 |
| | | | 4 | 1 | 0 |
| Less 25% | | | 1 | 0 | 3 |
| | | | 3 | 0 | 9 |
| ,, 10% | | | | 6 | 1 |
| *Amount of cash with order | | | *£2 | 14 | 8 |
| PARCEL C = 6 DOZEN | | | | | |
| 36 x 5 c.c. Drops | 6 | 2/- | 3 | 12 | 0 |
| 36 x 25 Capsules | 6 | 2/6 | 4 | 10 | 0 |
| | | | 8 | 2 | 0 |
| Less 25% | | | 2 | 0 | 6 |
| | | | 6 | 1 | 6 |
| ,, 10% | | | | 12 | 2 |
| *Amount of cash with order | | | *£5 | 9 | 4 |
| PARCEL D = 6 DOZEN | | | | | |
| 30 x 5 c.c. Drops | 5 | 2/- | 3 | 0 | 0 |
| 6 x 15 c.c. ,, | 1 | 5/- | 1 | 10 | 0 |
| 30 x 25 Capsules | 5 | 2/6 | 3 | 15 | 0 |
| 6 x 100 ,, | 1 | 8/6 | 2 | 11 | 0 |
| | | | 10 | 16 | 0 |
| Less 25% | | | 2 | 14 | 0 |
| | | | 8 | 2 | 0 |
| ,, 10% | | | | 16 | 2 |
| *Amount of cash with order | | | *£7 | 5 | 10 |

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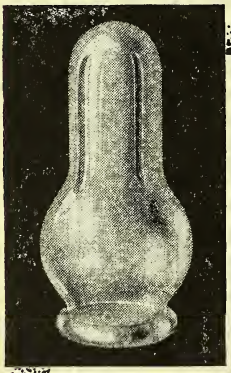

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HALF PRICE

The Ministry of Agriculture has announced the continuance during 1942 of last year's subsidy scheme for gassing rabbits. Under this scheme, farmers can buy 'Cymag' at half price—two 7-lb. tins for the price of one. An increased demand for this product can therefore be expected. Make sure your stocks are adequate by placing an order for fresh supplies immediately.

'CYMAG'

**in standard cases each containing eight 7-lb. tins**

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## A NOTE TO OVERSEAS BUYERS

***The fact that goods made of raw materials in short supply owing to war conditions are advertised in this paper should not be taken as an indication that they are necessarily available for export.***


# PENETROL. *INCREASED PRICES*

Although ingredients have more than doubled in cost, retail prices have not been increased since the war because we have been working on old stocks. It has now become necessary to replenish these stocks and naturally it is impossible to maintain the present low retail prices. The trade is therefore advised of the new prices operating forthwith:—

| | | | | |
|---|---|---|---|---|
| **RETAIL** | **9d.** | **2/-** | **3/-** | Tax Included |
| **TRADE** | **1 doz. lots** *6/- doz. plus tax* | **1 doz. lots** *16/6 doz. plus tax* | **1 doz. lots** *25/3 doz. plus tax* | |
| | **3 doz. lots** *5/9 doz. plus tax* | **3 doz. lots** *15/9 doz. plus tax* | **3 doz. lots** *24/- doz. plus tax* | |

Not more than three dozen of a size can be supplied at any one time and subject, of course, to raw materials being available.

***Retailers should note that existing stocks must be sold at the old prices of 7d., 1/5, and 2/3, including tax.***

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PRODUCTS

FOR FEMININE HYGIENE

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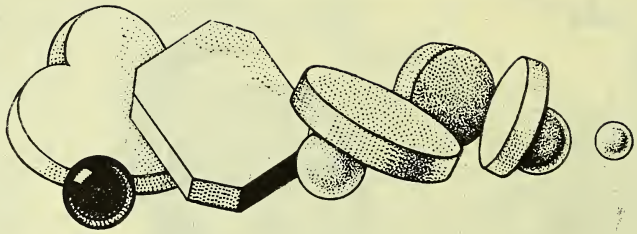

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| 39% | 63·6% |

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**2/6** per tube of 12 tablets
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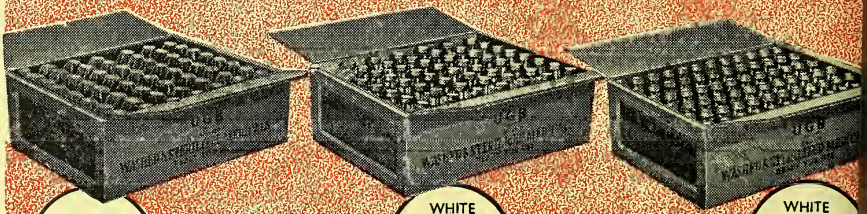

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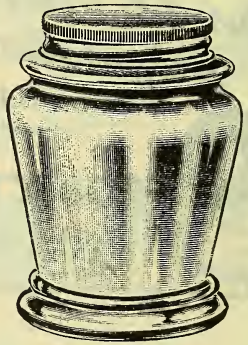

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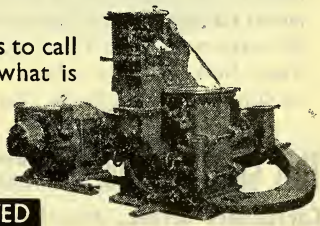

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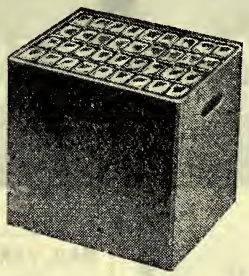

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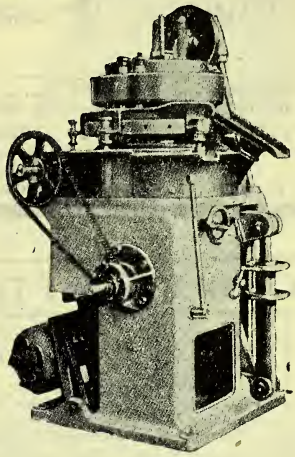

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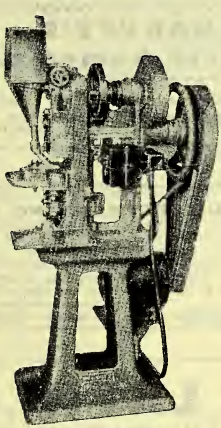

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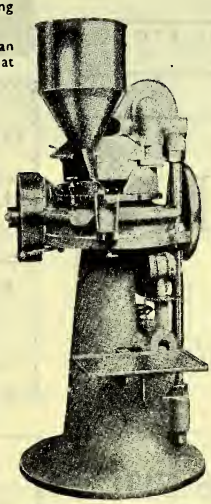

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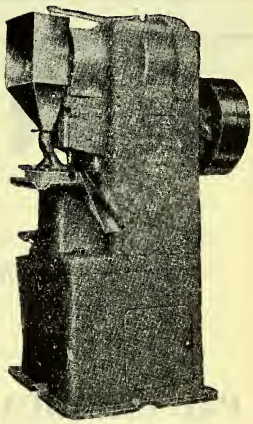

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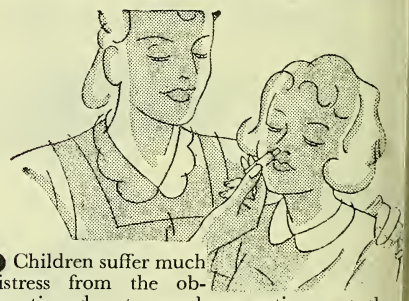

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# NEWS OF THE WEEK

**Amendment to British Pharmacopœia.**—e General Medical Council has given ice of an amendment to the B.P., 1932, nograph on Extractum Malti. On p. 117, 20, after "barley, *Hordeum distichon* n.," is inserted "or a mixture of this h not more than 33 per cent. of sound ted grain of wheat, *Triticum sativum* n."

**urchase Tax.**—Petroleum jelly which old as a hair dressing or other toilet paration, or which is held out for toilet is chargeable at 33⅓ per cent. under ss 18. All other petroleum jelly (includ- B.P. and B.P.C. standards) is chargeable 16⅔ per cent., under Class 19, unless it upplied in bulk in containers of 7 lb. nore, and is not put up as a medicinal paration.

**etail Deliveries.**—The London region il delivery scheme, adopted by London pkeepers to save fuel, vehicles, and man- er, comes into operation on March 30. er the scheme no goods purchased, ept medicines and certain other goods, be delivered more than a mile from the , except by pooled vehicles. There will nly one delivery a week to each cus- er, and separate calls for orders will be ntinued.

**Tartaric Acid and Cream of Tartar.**—An announcement from the Ministry of Food states that supplies of tartaric acid and cream of tartar are limited, and when the present small stocks are exhausted further quantities may not be available for the baking industry. Pyro cream powder and acid calcium phosphate are available and are suitable alternatives. The Ministry states that citric acid is available to meet the normal demand.

**Price Notices in Shops.**—The Retail Prices (Notices) Order, 1942, which comes into force on April 7, relieves retailers of the obligation to exhibit price posters or tickets for certain foods, but requires them to have a maximum price list available for inspection by customers. A notice must be displayed prominently in the shop stating that such a list is available for reference, and indicating where it is kept. Foods affected include cereal breakfast foods, honey, milk powder, condensed milk, pepper and sugar. A printed price list will be on sale at 6d. within the next few days. Most retailers will obtain copies through their Trade Associations, but, where this is not possible, copies can be bought through booksellers or from H.M. Stationery Office, Kingsway, London, W.C.

**Vaccines Sent to China.**—The St. John Ambulance Association and Indian Red Cross Society have sent 10,000 doses of plague vaccine to China.

**Paint Chemicals.**—A special department of the Miscellaneous Chemicals Control at Terminal House, 52 Grosvenor Gardens, London, S.W.1, has been set up to deal with chemical raw materials required by the paint industry. Mr. C. A. F. Hastilow, M.Sc., B.Com., F.I.C., will be in charge of the section under the Controller of Miscellaneous Chemicals.

**New Insurance Cards.**—To save paper and man-power the Ministry of Health and the Department of Health for Scotland have decided to introduce yearly—instead of half-yearly—contribution cards for National Health Insurance and Pensions. The first of these yearly cards will cover the period from July 6. Half-yearly cards will be continued only for juvenile workers, exempt persons, and persons over pension age.

**Control of Drying Oils.**—The Control of Drying Oils (No. 1) Order, 1942 (S.R. & O. 1942, No. 484, price 1d.), made by the Minister of Supply, makes subject to licence the acquisition, disposal, treatment, use or consumption of tung oil (china wood oil). oiticica oil, stillingia oil, drying oils made from castor oil, and certain oils of which these are ingredients. All inquiries and applications for licences should be sent to the Miscellaneous Chemicals Control, Terminal House, 52 Grosvenor Gardens, London, S.W.1.

**Pharmaceutical Council Election Postponed.**—Under the title of "The Pharmaceutical Society of Great Britain (Retirement of Council) Order, 1942," an Order in Council, dated March 10, provides that no member of the Council of the Society shall be required, by virtue of Section 4 of the Pharmacy Acts Amendment Act, 1898 (which provides for the retirement of members of the Council by rotation), to go out of office in the year 1942, and accordingly (*a*) the reference in paragraph (1) of that Section to "every year" shall be construed as not including the said year; and (*b*) no election of members of the Council shall be held in the said year, and no person shall by virtue of the Royal Charter of Incorporation of the Society or any bylaw of the Society, or of any enactment or rule of law, be required to perform any duty solely for the purpose of an election which by virtue of this order is not to be held.

**Memorial Donation.**—A donation of two guineas has been sent by the Peterborough Chemists' Association to the local Memorial Hospital in memory of the late Mr. J. W. Hall, M.P.S.

**Local Census in Salford.**—The Salford Pharmaceutical War Committee has addressed to pharmacists in its area a form on which is requested detailed informatior as to the work on which persons engaged or pharmaceutical work are employed.

**Guild of Public Pharmacists.**—At the eighty-seventh meeting of the council o the Guild of Public Pharmacists held or March 6, the secretary was instructed t communicate with American hospital phar macists who are organising a Nationa Conference. Subcommittee reports or incorporation, on deletion of Rule 2 (relating to trade unions), and on pharma ceutical education, were accepted after dis cussion. A copy of these reports has bee circulated to all members of the Guild.

**Aberdeen Pharmaceutical Association.**—The Association held its 103rd annu meeting on March 17. The balance shee showed that the finances were healthy The following office-bearers were appointed *President*, Mr. Adam A. Meldrum; *Vic president*, Mr. Hugh Hughson; *Treasure* Mr. John Michie; *Secretary*, Mr. John C Mutch, 96 Victoria Road, Aberdeer *Auditor*, Mr. George L. S. Spence. Th office-bearers, with Messrs. W. F. Hay ar M. K. Watt, form the executive.

**Three Papers at Edinburgh.**—At a meetir of the North British Branch of the Pharm ceutical Society of Great Britain, held Edinburgh on March 18, Mr. W. F. Ha Aberdeen, presiding, Professor J. P. Tod Ph.D., Ph.C., described the working of t Scottish National Blood Transfusion Servi in the West of Scotland. He also showed film illustrating the activities of t Association. In a paper on "Rose H Syrup," by Dr. J. J. Blackie, F.I. Ph.C., F.R.S.E., rose hips were stated to by far the richest natural source of vitam C (four times as rich as blackcurrants a about twenty times as rich as orange juic It was also revealed that fruits of *R canina* collected in Scotland are ov four times as rich in vitamin C as those fr the same species collected in the South England. Mr. Kenneth F. Ashdov M.P.S., gave a paper on "Free Gallic A in Bismuth Subgallate." He suggested th are no grounds for the suggested relaxati in the next Pharmacopœia of the pres B.P.C. limit for gallic acid.

# AMERICAN NOTES

**Bristles Commandeered.**—Pig and hog bristles over 3 in. long have been reserved in the United States for military requirements. No person may now process bristles, or commence the manufacture of any product of which bristles are a part, except on defence orders, unless specifically authorised to do so by the Director of Priorities.

**Glycerin Deliveries Restricted.**—Glycerin deliveries in the United States are being restricted to firms directly concerned with defence production, to hospitals and medical groups and to firms which need glycerin to avoid being closed down. The Office of Production Management has asked for reports on glycerin stocks by grade, quantity and glycerol content.

**U.S.P. Changes.**—Changes in U.S.P. standards, given in interim revision announcement No. 4 by the chairman of the revision committee, include:—

LINIMENT OF SOFT SOAP. Oil of lavender replaced by oil of cedar leaf in aromatic spirit of ammonia.

ROSE WATER OINTMENT. Rose odour may be omitted. Almond oil may be replaced by apricot kernel oil.

**Pharmacist Takes Government Post.**—The Board of Pharmacy of the State of New Jersey, U.S.A., has complied with a request by the Civilian Supply Division of the War Production Board to release Dr. Robert P. Fischelis (secretary and chief chemist, New Jersey Board of Pharmacy and a member of the New Jersey State Board of Health) for part-time service as chief of the Section of Medical and Health Supplies (civilian supply division) War Production Board. Dr. Fischelis will organise a staff of specialists and consultants in the field of hospital, medical and drug supplies at Washington. Problems involving replacement of drugs derived from foreign sources no longer accessible will receive attention.

**Restrictions on Advertising.**—The Federal Trade Commission of the United States has prohibited the use of the name Aspironal for a preparation that contained no aspirin. A Chicago company has been ordered to cease representing that Fat-O-No is a safe, simple, easy or effective treatment for obesity or causing to be disseminated advertisements that fail to reveal that the preparation should not be used in cases of nausea, vomiting, abdominal pains, etc. The proprietors of Calafo liquid have undertaken to cease representing that the product is capable of checking tendencies towards attacks of hay fever and asthma, and the proprietors of a skin lotion, Aknasol, have agreed not to use terms suggesting that the product would have therapeutic value in the treatment of skin blemishes.

**Recommendations by A.Ph.A. President.**—The president of the American Pharmaceutical Association has made a series of recommendations for the future line of action of the Association. Among them are that the committee on long-range programme of policy should be made a standing committee; that the Association should extend its efforts to bring about closer co-operation between pharmacy and medicine; that a committee should be appointed to study the possibilities of developing educational and professional exhibits as a feature of annual meetings; and that the Association's committee on State Food and Drug legislation should be instructed to study the Federal Food, Drug and Cosmetic Act and the Regulations issued thereunder and to report its interpretations each month for publication.

**Pharmacists in U.S. Army.**—Brigadier General L. B. McAfee (assistant to the Surgeon General of the United States Army) has advised the American Pharmaceutical Association that the present organisation tables based on an Army of 3,600,000 men will require the services of 5,000 men in the performance of pharmaceutical duties. Registered pharmacists, conscripted under the Selective Service and Training Act, will be used in their professional capacity to supply as many of this number as possible. The deficit will be made up by graduates of the Army technical schools who will act as assistants. Approximately 1,000 pharmacists are in the Army in commissioned or non-commissioned status at the present time.

The chairman of the Committee on Status of Pharmacists in the Governmental Services has stated that every effort will be made to provide pharmacists with as little disruption to civilian pharmaceutical service as possible. Employee pharmacists will probably be conscripted before men who own and operate their own pharmacies, but in all probability as many pharmacist owners as employee pharmacists will be drafted, resulting in the closing of a number of retail pharmacies.

# TOPICAL REFLECTIONS

### Proprietary Medicine Distribution

The discussion between the Proprietary Association of Great Britain and retail chemists seems likely to continue, as your last week's issue indicates (pp. 335, 347). It appears to me that in this matter the chemists are in a strong position. They already have the Chemists' Friends' scheme in operation: if they base their policy on the ideas of the scheme in their capacity as distributors of proprietary medicines, they have something to go upon. Without any intention of taking sides I venture to submit two general considerations. The first is that after June 30 there will be no secret medicines on sale other than those prescribed. (Incidentally, medical practitioners who dispense their own prescriptions will then become the chief originators of secret medicines.) Not only chemists but also many other intelligent people will be able to read and discuss the formulas appearing on labels and cartons. Manufacturers have, I suppose, realised the implications of this change. The second consideration is that the new manner of presentation to the public affords an opportunity to render medicines more "ethical," to use a word well understood in this connexion. Surely it is possible so to remodel the phrasing of advertisements as to raise the tone of appeal on the printed page and on the poster. A policy of this nature would constitute another way of becoming chemists' friends.

### The N.P.U. Comes of Age

Your congratulations to the National Pharmaceutical Union on its coming of age (p. 335) will be widely and cordially endorsed. I join in felicitating the Union in this event, and its secretary on his admirable account (pp. 338–41) of the rise and progress of the body for the success of which he has been so largely responsible. The origin of this flourishing institution is worth recalling. By the end of 1918 the Government, in its attempts at industrial reconstruction arising out of war conditions, had set in motion executive bodies of two types—Whitley Councils for trades and industries regarded as already sufficiently organised to enable employers and employed to adjust their differences with a reasonable prospect of success, and Trade Boards for other trades and industries. Obviously, the functions of Trade Boards were to be of a more mandatory character than those of Whitley Councils. Early in 1919 th Pharmaceutical Society was invited to sen representatives to a conference of th distributive trades called by the Ministr of Labour to consider the application of thi policy to them, and accordingly Sir Willian Glyn-Jones and Mr. G. A. Mallinson wer sent. It then appeared—and I remembe Sir William disclosing this fact in his mos impressive manner at a meeting of chemist —that a Trade Board was officially re garded as the proper administrative bod for the distributive trades; that th proposed Board would consist of about 30 members; and that the representation c pharmacy upon it would be infinitesima or nearly so. The Council of the Pharma ceutical Society promptly held two speci meetings, and as the outcome passe resolutions to the effect that the inclusio of pharmacists and their assistants in Board of that kind was unsuitable to th conditions of pharmacy.

### Great Activity

There was no time to be lost, for soo afterwards it was officially announced i the House of Commons that twenty-fo Trade Boards and thirty-one Whitle Councils had already been set up. C April 4 a conference was held betwe representatives of the Pharmaceutical Soc ety (with its protégé the Local Associatio Executive), the Drug Club, the Drug a Fine Chemical Manufacturers' Associatio the Wholesale Druggists' Sundries a Proprietaries Association, and six tra unions. A resolution proposing the "i mediate" formation of an industrial coun for the drug trade was passed, and committee was appointed to take steps that end. But by the end of the mon employer pharmacists in Scotland h formed the Scottish Pharmaceutical Fede tion; and one of the first actions of t Federation's Executive was to inqu whether the terms of the Society's Char permitted it to act in the manner propos Questions were drawn up, and counse opinion on them was against the Soci assuming such powers. Similar questi submitted to counsel in England by t Society brought a different opinion. C way out of the *impasse* was to have friendly action tried; and so it came ab that a selected plaintiff sought to have t Society restrained from doing cert specified acts.

**Xrayser**

# LEGAL REPORTS

**Poison Sold from Unlicensed Premises.**—t Reading, on March 18, G. W. Harrison, td., Katesgrove Lane, were summoned r the unlawful sale of a poison. A Pharaceutical Society's inspector (Mr. Highld) stated that he saw an advertisement the local paper for a rat poison. He rdered some and asked for particulars oncerning the preparation, signing himself Mr. Field." He received a quantity of the reparation, and a letter. It was a phosphorus preparation. The inspector pointed t that while the company was not thorised to sell poisons, two of its rectors were qualified chemists, one of hom, Mr. G. B. Osborne, M.P.S., is the wner of a business in Broad Street, eading, and it was perfectly in order for m to sell this preparation on his premises. he company was entitled to sell poisons two ways: (1) by wholesale dealing, and ) to a person for use in his occupation. r the defendants it was stated that Mr. sborne is the managing director of the fendant company. An agreement existed tween the company and Mr. Osborne, at they pass any retail business on to m to deal with. When this letter was ceived from "Mr. Field," Mr. Osborne ve the answer to the typist at the factory, d the goods were dispatched with the tter, written on the company's notepaper. ad it not been for the depleted staff, the der would have been sent to Mr. Osborne the normal way and he would have spatched the goods from his shop. The airman of the Bench said a technical ence had been committed, and the case ould be dismissed.

# COMPANY NEWS

Southern (Regent), Ltd. (P.C.).—pital £100. Photographers, etc. R.O.: New Bond Street, London, W.1.

V. Pugh & Son, Ltd. (P.C.).—Capital ,000. Wholesale and retail dealers in rfumery, toilet preparations, medicinal ods, etc. R.O.: 3 Bank Street, orcester.

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R. W. Greeff & Co., Ltd.—Mr. A. J. ompson has been elected chairman of e company and of Greeff-Chemicals oldings, Ltd.

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Dividend.—Thomas Albert Taylor, P.S., 23 Pembroke Hall, Mulberry Close, ndon, lately carrying on business at 8 Central Circus, Hendon, Middlesex: Dividend 2s. 8½d. in the £, payable at 73 Cheapside, London, E.C.2, on March 24.

Voluntary Liquidation.—Meetings of creditors and members of Agfa Photo, Ltd., will be held at 11 Ironmonger Lane, London, E.C.2, at 12 noon and 12.15 p.m. on April 1, to receive reports on the winding-up of the company.

**Private Arrangement.**—Francis Claude Llewellyn Staddon, M.P.S., 11 Market Street, Lewes, Sussex. A deed of assignment has been executed in favour of Mr. Parkin S. Booth, 14–17 Holborn Viaduct, London, E.C.1. Ranking liabilities total £189, all due to the trade; there is a fully secured creditor for £50. Net assets are £238—a a surplus of £49. The fully secured creditor is the bank, which holds as security a life policy which has been valued at the amount outstanding. Debtor commenced trading in April 1927. Up to 1937 the turnover averaged £2,000 per annum. Two years ago, owing to ill health, debtor placed the business under management and obtained a situation in the west country. The present position is attributed to decline in turnover since the outbreak of war and to the fact that the manager of the business obtained another situation. Efforts have been made to dispose of the business as a going concern, but no offers have been received. Failing a purchaser, trading will be discontinued and stock and effects disposed of.

# USED CHEQUES FOR MUNITIONS

How long do you keep your used cheques? Inquiries have shown that many people hoard them indefinitely, in the belief that they have the value of legal receipts. "This is a fallacy," a London bank official has stated. "The most that can be said for them is that they might serve, in court, in certain circumstances, as supporting evidence. There is no good reason why used cheques should be kept longer than six months, or one year at the outside. After all, clients have their regular statements as a record of payments. There must be millions of old cheques tucked away and forgotten in homes and offices all over the country, and they might well go to make munitions." He added that all banks would no doubt be very willing to throw out for salvage all cancelled vouchers if clients gave them authority to do so. Every voucher would, of course, be torn up before being sent to the pulping mills.

# PROPOSED CENTRAL DISPENSARY

BIRKENHEAD and Wirral Pharmacists' Association, which agreed recently (see *C. & D.*, March 14, p. 299) upon the desirability of a central dispensary, has appointed a small subcommittee to go into precise costs and work out practical details. The decision was reached at a special meeting held at Birkenhead on March 18, Mr. G. L. Hale in the chair.

### Reasons for the Scheme

Explaining the reasons for the project, Mr. F. Haworth said that staffs had been seriously depleted, and the proposed dispensary was an endeavour to find a solution. The scheme should be considered on the basis of the interests of the craft as a whole. It was suggested that a small limited company should be formed, with capital raised among local pharmacists. The company would, on early closing days and Sundays, undertake the dispensing services normally provided by a number of pharmacies. It would operate for this purpose only, and not for the sale of goods. The question might, however, be considered whether the dispensary should open for a longer period, say from half an hour earlier to the same amount later than the usual times of opening and closing. It was not proposed to carry stocks other than those necessary to give a full National Health Insurance and private dispensing service.

### Working Details

Capital required would be in the region of £250. This figure had been suggested by interested pharmacists who were already in business, and was based on experience of the requirements necessary. There might be some question raised about fittings and fixtures and the difficulty of obtaining them, but the lay-out he had in mind should not prove difficult to carry out. Fixtures would be of the simplest kind; no shop rounds would be needed, and the ordinary equipment of a dispensary was still available. The dispensary would be in either a room of a private house or in a small shop taken on a low rental, with accommodation for a waiting room. One qualified pharmacist and one assistant would do the work, according to a rota. Each should be paid an agreed sum for each duty. Apart from dispensing there would be questions of ordering, delivery, packing, and collection of empties.

### vantages and Drawbacks

The advantages were that there would be one series of overheads in place of a number. Insured persons would know for certain where they could get prescriptions dispensed on a half-day or Sunday. Pharmacists would avoid the worry of employing assistants to whom they could not give corresponding time off. The proprietor and his staffs would, except on their turn of duty, get the full half-day and Sunday away from the business. That in itself was sufficient justification for the scheme. Because of the Poisons and Dangerous Drugs Acts regulations, keys of the premises could be handed only to a qualified chemist. No doubt the National Pharmaceutical Union would advise members whether it would be necessary for the chemist on duty to exhibit his certificate. It was unlikely that obstacles would be placed by the authorities in the way of opening, as they were not so much opening a new business as endeavouring to relieve the strain on existing arrangements. Without the sanction of the Panel and Pharmaceutical Committees, the whole scheme would fall to the ground, but if it was fairly put before them it should meet with their approval. "One distinction I would like to make," said Mr. Haworth, "is the difference between giving a service to an insured person and supplying urgent medicines." The former was a matter of arrangements mutually satisfactory to chemists and the various Insurance Committees, but the latter meant a 24-hour service. The terms were loosely used to mean the same thing, and many chemists seemed to hold the opinion that they opened their premises on Thursday and Sunday evenings to supply urgent medicine.

### Discussion

One member commented that the scheme would be unworkable; people could not be expected to bring the prescription from the extreme ends of the borough to a central dispensary. Mr. Haworth seemed optimistic about getting stock, though many drugs were in short supply. Was it likely that drugs which chemists could not obtain would be made available for a central dispensary? If a rota of duties was arranged, asked another member, could one be certain that the chemists and their assistants would turn up on the appointed nights. If chemists showed the

Government how the public could manage without chemists' shops, it might be to the disadvantage of pharmacists in business.

MR. F. HAWORTH: If the dispensary is stablished on a central bus route and eople need medicine they will travel to it. hey often now bring in prescriptions ated two or three days previously. Admitedly the need of the scheme has been ictated by war-time conditions. As the umber of prescriptions will only be the ame as now, the use of drugs will not be ncreased. It would be a sad reflection on harmacy if members did not turn up.

MR. F. SNOW: Would one dispensary e enough for private patients as well as nsured patients? You would have to ave a comprehensive stock for all rescriptions.—MR. HAWORTH: I think one ould do. Stock would have to be restricted what chemists carry for N.H.I. purposes. would not be possible to stock roprietaries.

MR. C. H. CRAWSHAW: The scheme would robably be more acceptable to the Pharaceutical Committee if there were two spensaries—one at each end of the town. -MR. HAWORTH: Two would be better, t they would involve more expenditure d more staff. There are forty-four emists who should be interested; at o per shop, the burden is not heavy, ving regard to the benefits.

Another member said the scheme seemed necessary. A rota of chemists whose rvices would be available at their own ops would meet the circumstances.

MR. HAWORTH: The opening of so many ops is a quite redundant procedure, and e purpose of the central dispensary is to rrect that waste.

MR. F. G. COLLINS said one wholesaler formed him that £330 would be sufficient the scheme, including £100 for patents, d allowing for drugs, pills, capsules, and apparatus costing £160.

A vote taken on "Is the scheme necesry?" resulted in nine for and six against,

## COMING EVENTS

**Wednesday, April 1**

ASGOW AND SOUTH-WESTERN BRANCH, PHARMACEUTICAL SOCIETY, Highlanders' Institute, 27 Elmbank Street, Glasgow, at 7.30 p.m. Annual meeting.

**Saturday, April 4**

ILD OF PUBLIC PHARMACISTS, 17 Bloomsbury Square, London, W.C.1, at 3 p.m. Special general meeting.

## VITAMIN A REQUIREMENTS

AT an afternoon meeting of the Pharmaceutical Society held in London on March 12, Dr. Katharine H. Coward read a paper on "The Relative Needs of Young Male and Female Rats for Vitamin A." The following is a summary. Young rats given a diet deficient only in vitamin A grow until their reserves of that factor are exhausted. If vitamin A is still withheld they lose weight and die. Even if given small doses of vitamin A before they begin to lose weight some still die, though the rest begin to grow again, males responding less than females. With larger doses the response of males and females is equal. If still larger doses are given males show a greater response than females. The evidence afforded by the large number of experiments carried out in the Pharmacological Laboratories of the Pharmaceutical Society is overwhelming on this point. The author has suggested that human male infants may also need more vitamin A than human female infants, and that insufficiency of the vitamin may be one reason why mortality among male infants in Great Britain is higher than among female infants.

## BED-BUG INSECTICIDES

THE Bed-bug Infestation Committee of the Medical Research Council has recommended the following insecticide formulas for use in air-raid shelters:—

PYRETHRINS IN KEROSENE.—A preparation having a guaranteed content of 0·6 per cent. to 0·8 per cent. of pyrethrins. Alternatively, a weaker pyrethrin solution made equally toxic for bugs by the use of an adjuvant harmless to human beings.

THIOCYANATES.—(*a*) Lethane in kerosene. To have a guaranteed content of 6 per cent. lethane 384. (*b*) Lauryl thiocyanate in kerosene. To have a guaranteed content of 3 per cent. of lauryl thiocyanate.

HEAVY COAL-TAR NAPHTHA WITH CRESYLIC ACID.—Cresylic acid (5 per cent.) dissolved in heavy coal-tar naphtha complying with the following specification: (*a*) Specific gravity at 60° F., not less than 0·835 or greater than 0·910. (*b*) Distillation range: not more than 10 per cent. to distil at 160° C. and not less than 90 per cent. at 190° C. (*c*) Flash point, not less than 100° F. (*d*) Tar bases, not to exceed 0·25 per cent. The preparations should only be used when a shelter is empty, and an interval of at least two hours should be allowed to elapse before the shelter is again occupied.

# C.F. SCHEME DISCUSSED AT BATH

A MEETING of Bath and Bristol pharmacists was held at Bath on March 18 to hear Mr. R. H. Kemp (secretary of the Chemists' Friends Association) put forward a strong advocacy of the Chemists' Friends scheme, and urge signature of the "penalty" agreement for retail members of the Association.

### Tightening-up the C.F. Scheme

MR. KEMP reminded his hearers that the C.F. scheme had been in operation for seven years. It had started off amid the whole-hearted enthusiasm of members, not all of which had been backed up with practical support. In that period the number of unqualified dealers in medicinal preparations had undergone a considerable increase. The title he had once chosen for an address to chemists: "Mind your own business" was more than ever the correct slogan today. Certain manufacturers had criticised the support given to the C.F. scheme by retailers, and wanted the scheme tightened up. That was one reason for the registration fee and penalty clause. The fee enhanced the value of the signature, though it benefited not the Chemists' Friends Association, but the N.P.U., which was required to finance the C.F.A. to a maximum of £1,000 per annum. Mr. Kemp gave figures to show that of members' annual payments to the N.P.U. more than half went to provide indemnity benefit, and less than a third to the Union's own expenses.

### Reason for Penalty

The need for a penalty was that it would convince manufacturers, as the time drew near for renewing their C.F. agreements, that they could count on retail support to the full extent. The penalty would be applied only upon chemists found supplying unqualified goods for re-sale. Before it was enforced, every member of the C.F.A. would be given full opportunity to withdraw, but all should carefully consider the advantages of membership. The speaker gave instances of C.F. preparations that had added considerably to the revenue of chemists—revenue that would largely have been lost if distribution had been universal. Members were not asked to refuse sales of any non-C.F. preparation. They were certainly required not to display non-C.F. lines or accept bonus terms if such terms involved making a display, but it had been shown that the maximum possible loss from this cause was 5s. per £40 of turnover. Chemists who did not sign the agreement were more likely to be penalised than those who did, as if enough signatories were forthcoming the manufacturers might be favourably disposed to the policy of withholding supplies from non-signers.

### Discussion

MR. TUDDENHAM asked whether the C.F. committee had taken steps to prevent the opening of pharmacies in bazaar stores. The reply was that a special subcommittee had just issued its report. There had been some difficulty in defining a bazaar store as many other stores, some of which had long had pharmaceutical departments were capable of being put in the same category. It had been considered that the dividing line could not be fixed in existing circumstances. Manufacturers were being asked not to open new accounts of this type while the war lasted, but there was no means of enforcing this.

MR. DICKINSON asked if the chemist retained full control of his windows after signing the agreement.—MR. KEMP: Yes. There is no obligation on any member to display a preparation because it is C.F., but of course he must not show a non-C.F. competitive item.

MR. MILLS asked if wholesalers were under a penalty, and gave an instance of a C.F. proprietary being on display locally in a non-member's shop.—MR. KEMP affirmed that the wholesalers were under a penalty to keep their agreement. He took note of the infringement referred to.

MR. CURTIS, who asked what constituted a counter display, was told that the restriction did not apply to stock fixtures. Nor would the penalty be enforced for an innocent first offence.

MR. DOBLE mentioned the possibility that in the present shortage of supplies unfriendly manufacturers might withhold non-C.F. goods from C.F. supporters.—MR. KEMP pointed out that this would be cutting down the number of distribution points—the very thing the manufacturer wished to increase.

Messrs. CAMERON, CLEVERLY, NORRIS and SWAIN also contributed to the discussion. A vote of thanks to the speaker was moved by the chairman (MR. A. F. HALE).

# PARLIAMENTARY NEWS

**Dealers' Licences to Convicted Persons.**—The Financial Secretary to the Treasury informed Major Lucas on March 17 that consideration was being given to the question of taking powers to refuse wholesale dealers' licences to persons with previous convictions.

**Salvage of Window Cartons.**—Sir H. Williams asked the Minister of Supply on March 18 whether steps were being taken to use for salvage the large quantities of empty paper cartons displayed in shop windows. Sir A. Duncan replied that local authorities would shortly be empowered to remove cartons and other waste paper from unoccupied premises. It was proposed to enlist the co-operation of the trades concerned in the surrender for salvage of empty cartons from open shops.

**Wound Treatment Experiments.**—Mr. Kirby asked the Under-Secretary of State for War on March 17 whether he could give any information about a new treatment for wounds discovered by a doctor of the Hebrew University in Jerusalem, and whether the treatment was to be adopted throughout military hospitals.

Mr. Sandys: This work has not yet passed the experimental stage and there can therefore be no question at present of adopting its results generally. Steps have been taken to give assistance to the doctor in his experiments.

**Medicated Toilet Preparations.**—Commander King-Hall asked the President of the Board of Trade on March 17 whether he would take steps to prevent the purpose of the restriction in the manufacture of cosmetics under the Limitation of Supplies Order being defeated by unrestricted sale of medicated creams, ointments and balms.

Mr. Dalton: If my hon. and gallant friend will let me have particulars of any medicated toilet preparations which are being sold without restriction, I will have inquiries made.

Commander King-Hall: Is the right hon. gentleman aware that the amount of these balms and medicated creams now on sale without restriction is increasing the whole time, that they were not on sale at all before the issue of the Limitation of Supplies Order, and that they can be and are used instead of cosmetics which have been restricted?

Mr. Dalton: I shall be glad if the hon. and gallant Gentleman will send me the details.

# PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

THE monthly meeting of the Council of the Pharmaceutical Society of Northern Ireland was held at 73 University Street, Belfast, on March 20. Mr. James Glendinning (president) was in the chair. There were also present Messrs. H. F. Moore (vice-president), J. T. Nicholl (treasurer), J. E. Connor, James Donaghy, J. W. Gray, James McDowell, John McGregor, Walter C. Tate, Dr. S. E. A. Acheson and Sir Thomas McMullan.

Before the business of the meeting THE PRESIDENT referred to the death of Mr. Samuel Gibson, J.P., an ex-president of the Council, and moved that the sympathy of the members be extended to Mrs. Gibson and her family. This resolution was seconded by MR. H. F. MOORE, supported by MR. WALTER TATE and SIR THOMAS MCMULLAN, and passed in silence, the members standing. A letter was read from Mrs. Gibson, thanking the Council for their floral tribute and sympathy.

On the motion of MR. MCGREGOR, seconded by MR. CONNOR, the minutes of the February meeting were adopted.

THE SECRETARY reported the vacancy caused on the Council by the death of Mr. Samuel Gibson, and he was instructed to find out from the Ministry of Home Affairs if it was necessary to fill the vacancy at the April meeting of the Council, or to postpone same in view of the fact that a reduction in the druggists' representation is due to be made next year.

The report of the Finance Committee was read and adopted on the motion of MR. J. W. GRAY, seconded by MR. MCGREGOR.

The following candidates were elected members of the Society on the motion of MR. DONAGHY, seconded by MR. J. MCDOWELL: Mervyn Wright Henderson, Gerard Michael McManus, Bernard Aloysius O'Kane, and William Francis Thompson.

# INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:—

CT/30. Sorban emulsifying agent.
HB/29. Almerscerin glycerin substitute.
BW/9. Sunrae combs.
BC/14. Syramol malt and syrup compound.
M/20. Dixie disinfectants.
GT/21. Sorbolene floor-sweeping compound.
HF/26. Everite teats.

# NUTRITION IN WAR-TIME

by Frank Wokes, Ph.D., B.Sc., F.I.C., Ph.C.

## II.—Energy Values of Foods

THE human body resembles a machine in that it will not work unless provided with a source of energy. Man, like other animals, gets his energy from food. The energy value of foods is therefore of fundamental importance, especially in war-time, when it forms an essential factor controlling national output.

**Energy Values of Food.**—Different kinds of food, like different kinds of fuel, may have widely different energy values. One ounce of butter, for example, provides as much energy to the human machine as 2¼ oz. of sugar or 4 to 5 oz. of raw beef. These differences in energy value are due to differences in the chemical composition of the foods. Water, which forms about three-quarters of the total weight of raw beef, does not provide any energy. Butter is composed almost entirely of fats, which weight for weight provide about two and a quarter times as much energy as the carbohydrate in sugar and starches. The energy value of lean beef is due mainly to the protein it contains. Since the energy value of all proteins is approximately the same, and also approximately equal to that of carbohydrates, we can calculate the energy value of any food by determining the amount of carbohydrates, protein and fat it contains, and applying suitable factors.

**Calorie Value of Foods.**—The energy value of foods is measured in Calories. In physics a Calorie is the amount of energy required to raise a kilogram of water through one degree Centigrade (15–16° C.), and the calorie value of a substance is determined by burning it completely to carbon dioxide and water in a suitable apparatus and measuring the heat evolved. Care should be taken to distinguish Calories (spelt with a large "C") from calories (spelt with a small "c"). The calorie, which is the amount of energy required to raise a gram of water through 1° Centigrade, is of course only a thousandth of the value of the Calorie. The energy requirements of man are more conveniently expressed in Calories than in calories, and in fact are sometimes expressed in thousands of Calories. In nutrition studies it is necessary to take into account the fact that the food constituents are not always completely broken down to carbon dioxide and water when used as sources of energy in the animal body. Proteins, for instance, are broken down in man only so far as urea, which passes out of the body in the urine. Hence the energy value of 1 grain of protein when used as food is only 4·1 calories, whereas if burnt completely to carbon dioxide and water the energy value is 5·3 Calories. The energy value of carbohydrates used as food is approximately the same as that of proteins, i.e., 4·1 calories per gram. The energy value of fats at 9·3 Calories per gram is almost two and one quarter that of proteins and carbohydrates.

**Energy Value of a Meal.**—It will be useful to illustrate the above remarks by calculating the energy value of a meal of bread and cheese containing say 7 oz. of bread and 1¾ oz. of Cheddar cheese. 7 oz. of bread is approximately equal to 200 grams. Wholemeal bread contains about 44 per cent. of carbohydrate, 8 per cent. of protein and 1½ per cent. of fat. Hence 200 grams will contain about 88 grams of carbohydrate, 16 grams of protein and 3 grams of fat. Since 1 gram of carbohydrate provides 4·1 Calories, 88 grams will provide 88 × 4·1 or 361 Calories. Similarly 16 grams of protein will provide 16 × 4·1 or 66 Calories, and 3 grams of fat will provide 3 × 9·3 or 28 Calories. The total energy value of the 7 oz. of bread is therefore 361 + 66 + 28 or 455 Calories. Again, Cheddar cheese contains about 25 per cent. of protein and 4 per cent. of fat (carbohydrate is practically absent). Hence 1¾ oz. or 50 grams of Cheddar cheese will contain about 12½ grams of protein and 17 grams of fat and will provide 12½ × 4·1 Calories plus 17 × 9·3 Calories, totalling 210 Calories. The total energy value of the meal is therefore 455 + 210 or 665 Calories. Some foods such as wholemeal bread contain fairly constant proportions of carbohydrate, protein and fat, so that in calculating the energy value of a meal or diet reasonable accuracy may be obtained by taking an average figure (e.g., sixty-five Calories per ounce) as the energy value. White bread has on the whole a somewhat higher energy value of about seventy-four Calories per ounce. Other foods vary widely in composition and the variety actually eaten must be known. The energy value of Dutch cheese at seventy-seven Calories per ounce is only

third of that of cream cheese at 232 Calories per ounce. With meat in particular t is necessary to know what proportion of at is eaten, and also to make allowance or certain wastage which does not occur with bread and cheese. Considerable knowledge and experience is needed to obtain atisfactory results when using published ables of food analyses to calculate the nergy value of a meal or diet.

**Energy Needed for Maintenance.**—The uman body differs from machines in that ven when at rest it requires energy for the aintenance of life, by the action of the eart, lungs and other vital organs. The mount of energy required for these vital rocesses in a resting man may be called is basal energy requirement, which must e taken as a basis in all considerations of nergy values of diets. This basal energy equirement depends mainly on the height nd weight. For a man 5 ft. 6 in. high it ould range from 1·52 for 9 stones weight 1·84 for 14 stones, whilst for a man 6 ft. gh it would range from 1·70 for 10 stones eight to 2·07 for 16 stone (all figures ing given in thousands of Calories daily). reasonably accurate figure for the basal ergy requirement of the average man in is country would be 1·8 thousand of lories daily. In other countries where e average height and weight are smaller, ch as Italy and even more in Japan, the sal energy requirement would be correondingly reduced.

**Energy Available for Work.**—Obviously, know how much energy will be available work from a man on a given diet, it is cessary to subtract his basal energy requirement from the total energy value of his diet. For example, an average man in this country will need about 1·8 thousand of Calories a day even if he decides to spend a few days at home without doing any work. If the total energy value of his diet were 2·75 thousands of Calories a day (as happened amongst unemployed men in Reading in 1932), the net energy value representing the energy available for work would be 2·75 — 1·80 or 0·95 thousand of Calories. Since he has had to be supplied with 2·75 in order to get 0·95 thousand of Calories of work from him the percentage efficiency is $\frac{0{\cdot}95 \times 100}{2{\cdot}75}$ or 35; which is considerably lower than the maximum efficiency obtainable. British soldiers in 1914–18, for instance, received a diet of which the total energy value was about 4·3 thousands of Calories a day. The net energy value was 4·3 — 1·8 or 2·5 thousands of Calories, and the percentage efficiency was $\frac{2{\cdot}5 \times 100}{4{\cdot}3}$ or 58. High percentage efficiency values were also found in the diets of professional workers and munition workers (see Table), whilst the value for the diet of Italian soldiers was considerably less than that for British soldiers, even after taking into consideration the smaller size and therefore lower basal energy requirements of the Italians. Still lower percentage efficiency values were found in the diets of unemployed. Such conditions represent deplorable inefficiency, damaging both the physical and moral welfare of the nation. The average basal energy requirement of a normal man in this country is about 1·8 thousand of Calories daily. If such a man becomes unemployed and is compelled to live on an inadequate diet for months, he will lose weight. This will cause his basal energy requirement, which depends partly on the body weight, to fall. For example, it has been estimated that amongst unemployed men at St. Andrews in 1931 who had been living on a very poor diet with a total energy value of only about 2·09 thousand of Calories, the basal

ET AND WORK—VARIATION IN THE PERCENTAGE OF THE OTAL ENERGY OF THE DIET WHICH IS AVAILABLE FOR WORK

(all figures given in thousands of Calories a day)

| Diet eaten by | Total energy value | Estimated basal energy requirement | Net energy value (total minus basal) | Percentage available for work |
|---|---|---|---|---|
| ritish soldiers (1914–18) .. | 4·30 | 1·80 | 2·50 | 58 |
| rofessional workers (1931) .. | 3·64 | 1·80 | 1·84 | 51 |
| unition workers (1917) .. | 3·46 | 1·80 | 1·66 | 48 |
| alian soldiers (1917) .. | 3·05 | 1·70 | 1·35 | 44 |
| nemployed (Cardiff, 1932) .. | 3·06 | 1·80 | 1·26 | 41 |
| nemployed (Reading, 1932) | 2·75 | 1·80 | 0·95 | 35 |
| nemployed (St. Andrews, 1931) .. .. .. | 2·09 | 1·70 | 0·39 | 19 |
| erman civilians (1918) .. | 1·80 | 1·48 | 0·32 | 18 |

energy requirement was about 1·7 thousand of Calories, leaving about 0·39 thousand of Calories available for work. In practice, of course, no man even if unemployed rests at home all the time. He does some work at home, and also goes out. Both of these require energy, which has to be deducted from the net energy available for work in order to obtain a true figure for the amount of work he will be able to do at his job. An extreme example of the effect of malnutrition on diet and efficiency was seen amongst German civilians in 1918. The percentage efficiency of their diet had fallen to about 18 per cent.

# TRADE NOTES

**Evans "A" List.**—Will chemists who have applied for a copy of this list (referred to in last week's issue of the *C. & D.*) please note that it will not be ready for dispatch before April.

**Price Changes.**—Bayer Products, Ltd., London, W.C.2, announce elsewhere in this issue changes in the prices of Butolan and Theominal tablets. The prices of other Bayer pharmaceutical products remain as in the January 1941 price list.

**Relabelling Complete on April 7.**—From April 7, Potter & Clarke, Ltd., will send out no packed goods unless the labels conform to the Pharmacy and Medicines Act, 1941, even to disclosure of the formula in conformity with Section 11.

**Prices of Koray.**—Current prices of Koray tablets to the retailer and to the public in 10's, 28's, 64's and units (three cards of sixteen cartons or one box of four doz.) are tabulated in an advertisement by Koray, Ltd., Blackpool, on another page.

**Change of Potency.**—Adexolin capsules now being issued by Glaxo Laboratories, Ltd., Greenford, Middlesex, contain 4,500 international units of vitamin A and 900 i.u. of vitamin D. Thus one Adexolin capsule daily, plus the 1,000 to 1,500 i.u. of vitamin A secured normally even from a war-time diet, provides substantially more than the 5,000 i.u. accepted as the average daily vitamin A requirement of adults. The change has been made in response to a call by the Ministry of Food for a reduction of the use of vitamin A in pharmaceutical and medical preparations. There is no alteration in the retail prices of the capsules.

## Business Changes

W. H. Hobbs & Co., Ltd., announce that from March 28 their address will be 22–23 Tower Hill, London, E.C.3 (Telephone: Royal 4444).

## Proprietary Articles Trade Association

**Alterations to Protected List.**—*Iglodin Co., Ltd.* Iglodine antiseptic, 2-oz. size 6¾d., 4s. 6d. doz., tax 9d. doz., inclusiv retail price, 7½d. Nasal douche, 1s. 3d. 10s. doz. (exempt from tax). Throa tablets (tubes), 6¼d., 4s. 2d. doz., tax 8½d doz., i.r.p. 7d.

*Henry C. Miner, Ltd.* Liquid make-up milk of olives, Lipid, liquid stockings 1s. 6d., 13s. 6d. doz., tax 4s. 6d. doz., i.r.p 1s. 10d. Liquid stockings, 3s. size, 27s. doz tax 9s. doz., i.r.p. 3s. 9d. Appliodine n subject to usual quantity discounts, bu special 5 per cent. cash discount allowed o gross quantities; otherwise net.

**Additions to Protected List.**—*W. E Cartwright, Ltd.*, Moorland indigestion tab lets, 7½d., 5s. 6d. doz., tax 11d. doz inclusive retail price 8½d.; 1s. 3d., 11s. doz tax 1s. 10d. doz., i.r.p. 1s. 5d. Three d small size, 5s. doz. Three doz. large siz 10s. doz. Six doz. small size, 4s. 10½d. do Six doz. large size, 9s. 9d. doz. Twelve doz small size, 4s. 8½d. doz. Twelve doz. lar size, 9s. 4½d. doz.

*H. & T. Kirby & Co., Ltd.*, Staphoi jelly, 2s., 15s. doz., tax 2s. 6d. doz., i.r. 2s. 2½d.

*Milner & Coke, Ltd.*, O.Q.T. powder No. 9, 8s. doz., tax 1s. 4d. doz., i.r.p. 1s. 1½d No. 28, 24s. doz., tax 4s. doz., i.r.p. 3s. 4 Single powders, 2d. each or two for 3½

**Alterations.**—*English Grains Co., Ltd* Yestamin tablets, 100's, 1s. 1½d., 9s. do tax 1s. 6d. doz., i.r.p. 1s. 3d.; 225's, 2s. 3 18s. doz., tax 3s. doz., i.r.p. 2s. 6d.; 300 2s. 11d., 23s. 4d. doz., tax 3s. 10⅔d. do i.r.p. 3s. 3d. 6d. size will be withdra when present stocks are exhausted.

*Milner & Coke, Ltd.*, G.O. lemo flavoured seidlitz powders, ordina strength, 32s. gross, tax 5s. 4d. gro i.r.p. 4d. Extra-strong, 40s. gross, t 6s. 8d. gross, i.r.p. 5d. Double-strengt 48s. gross, tax 8s. gross, i.r.p. 6d.

*Neave's Food, Ltd.* Neave's Mil 10-oz. tins, 3s., 26s. 3d. doz. Neav health diet, 12-oz. tins, 2s. 6d., 21s. 6 doz.

*Peat Products (Sphagnol), Ltd.* Fro April 1, all orders for two doz. or more un of any one product, except medical a toilet soaps and ½-lb. and 1-lb. sizes ointment, will be supplied at thirteen doz.

## PERSONALITIES

Mr. Eugene MacSweeny, 91 Patrick treet, Cork, has been co-opted to the ommittee of the Irish Drug Association.

Sergeant J. Everett, one of the mployees of Arthur H. Cox & Co., Ltd., anufacturing chemists, Brighton, has een awarded the D.F.M. for exceptional evotion to duty in a recent flight over ermany. He was in the R.A.F.V.R. before e war and joined up immediately on the itbreak of hostilities.

Among the new fellows elected at a eeting of the Royal Society in London n March 19 were: J. H. Burn, professor pharmacology, Oxford, formerly Dean the College of the Pharmaceutical ociety; E. C. Dodds, professor of bioemistry, Middlesex Hospital Medical hool; T. P. Hilditch, professor of industial chemistry, Liverpool; D. D. Thoday, ofessor of botany, Bangor; and A. R. odd, professor of chemistry, Manchester niversity.

## MARRIAGES

Bainbridge—Hargreaves.—At St. ban's R.C. Church, Blackburn, recently, oger Bainbridge, M.P.S., Fairview, eenodd, Ulverston, Lancs, to Winifred argreaves.

Sidebottom—Morgans—At Mount easant Methodist Church, Oswaldtwistle, rgeant-observer M. V. Sidebottom, son Mr. S. H. Sidebottom, M.P.S., 373 ackburn Road, Accrington, to Edna organs.

## DEATHS

Bradley.—On March 9, Mr. Thomas enry Bradley, M.P.S., Ashgate Road, esterfield, aged seventy-two.

Burry.—Recently, Mr. David Edmund enry Burry, M.P.S., Knottingley, Yorks, ed forty-two.

Ferguson.—At Motherwell, recently, Mr. illiam Cross Ferguson, M.P.S. Mr. Ferson retired in September 1941, after ing in business locally for over forty ars. He was at one time president of the narkshire Pharmaceutical Association.

Gibbs.—At Sutton, Surrey, recently, . James Gibbs, Ph.C., 57 West Hill Road, ndsworth, London, S.W. Prior to his irement nearly twenty years ago Mr. bbs was manager of the drug department the Civil Service Supply Association, Ltd.

Hall.—Recently, Mr. Jasper Longsdon Hall, M.P.S., the Central Pharmacy, Solihull, aged sixty-nine.

McDonald.—At the Royal Hospital, Richmond, Surrey, recently, after a short illness, Mr. A. McDonald, director of Gale, Baiss & Co., Ltd., manufacturing chemists, London, S.E.15. Mr. McDonald was well known in the wholesale drug trade, and at the time of his death was serving on The Chemists' Friends Council as a wholesalers' representative.

Padden.—Recently, Mr. Samuel Padden, M.P.S., Attercliffe Road, Sheffield, aged sixty-seven.

Roberts.—At 13 Redcliffe Road, Nottingham, on March 17, Mr. Tom Roberts (Dennis & Roberts, Ltd., wholesale druggists, Clumber Street), aged forty-six.

Shaw.—Recently, Mr. Henry Woolhouse Shaw, M.P.S., 3 St. Helen's Road, Belle Vue, Doncaster, aged sixty-seven.

Tynan.—At Newtownbarry, co. Wexford, on March 12, Mr. Christopher S. Tynan, M.P.S.I. Mr. Tynan was in business in Newtownbarry for many years, and qualified as a Licentiate of the Pharmaceutical Society of Ireland in 1896.

Wilson.—Recently, Mr. John Arthur Wilson, M.P.S., 102 Carr House Road, Doncaster, aged thirty-six.

## RECENT WILLS

Mr. Edmund Carpenter, M.P.S., 2 Grange Park, Westbury-on-Trym, Bristol, formerly for many years managing director of Hodders, Ltd., who died on December 5, left £34,532, with net personalty £31,361.

Mr. Frederick William Fox, M.P.S., 2 St. Peter's Close, St. Albans, for a number of years dispenser at the Mid-Herts Hospital, St. Albans, who died on November 25, 1941, left £12,013, with net personalty £708.

Mr. Joseph Tempest Ash, 97 Hamilton Terrace, St. John's Wood, London, N.W., deputy chairman of the Amalgamated Dental Co., Ltd., who died on December 10, 1941, left £47,900, with net personalty £44,344.

Mr. Henry John Perrett, Kilve, Somerset, retired chemist, for many years manager and a director of J. H. Read, Ltd., 141 Victoria Street, London, S.W.1, who died on November 27, 1941, left estate of the gross value of £35,893, with net personalty £31,413.

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*fficial organ of The Pharmaceutical Society of eland, The Pharmaceutical Society of Northern eland, The Chemists' and Druggists' Society of eland and of other Chemists' Societies in the Empire*
OL. CXXXVII MARCH 28, 1942 NO. 3242

*he fact that goods made of raw materials short supply owing to war conditions are lvertised in this paper or described in its itorial columns should not be taken as an dication that they are necessarily available r export.*

## Big Business versus the Small Man

ROM time to time a statement appears in e report of the Chemists' Friends Associa- on that supplies of C.F. goods may mporarily be supplied to a business that no longer registered with the Pharma- utical Society owing to the proprietor ving joined H.M. Forces. The problem carrying on a business in the absence of pharmacist is one that is being increas- gly felt by multiple as well as individual emists, and its application to the co- erative societies was discussed in a cent issue of the "Co-operative News" by r. H. Walsh, M.P.S., superintendent emist of the Ten Acres and Stirchley ociety. Mr. Walsh points out that the plications for deferment of co-operative anch managers are as yet undecided, t if deferment is granted it will be nditional on retention of the position for hich it is granted, so that transfers of ferred persons to meet changing needs ll not easily be arranged. Mr. Walsh ntinues:

"It may be, however, that if the matter be garded as a 'district' problem, with some pooling of resources to meet mutual difficulties, the ultimate combined disadvantages will be minimised by the closing of the smallest shops only, and pooling of pharmacists to spread over the larger shops in order that these may continue. Societies with one pharmacy may convert this into a 'non-pharmacy', i.e. drug store. The whole society would then be free from the obligations of the Pharmacy Acts, providing that the directions contained in the union's relevant instructions had been carried out. There would then be no restrictions on the sale of 'drugs' (other than Part 1, poisons) in any shops, grocery or otherwise, as obtained when the pharmacy was maintained. Societies with more than one pharmacy cannot maintain both pharmacies and drug stores; the procedure of the foregoing paragraph is therefore not available unless applied to all pharmacies operated (Section 9 1b, 1933 Act). Societies with more than one pharmacy can, however, if they desire to convert the pharmacies into drug stores to avoid closure, arrange that they do not maintain both pharmacies and drug stores by technically relinquishing one or the other. They can do it by handing such over to a dependent society formed for the purpose, by either (*a*) organising the branches which may have to close into a separate limited dependent society, admitting them successively as they lose their status as pharmacies; or (*b*) by organising the pharmacy shops as now existing into a separate dependent society, re-absorbing them into the parent society successively as they lose their status as pharmacies. This, in addition to the primary purpose, also frees the whole residual society, including the grocery shops, from all the burdens and obligations, including registration, of the Pharmacy Acts, including, of course, those of 1933 and 1941."

The shortage of pharmacists is also exemplified by the fact that girls hitherto employed on the toilet counters of another chain of shops are being trained to handle drugs.

### The Fate of Private Traders

Little has been heard of late regarding the concentrating of retail trade, though the matter will no doubt be revived when the Retail Trade Committee issues another report, but whatever "telescoping" takes place it will not alter the fact that many difficulties facing pharmacy, and, in fact all retail distributive trades, today are due to the indiscriminate opening of shops since the last war. The ban which has now been imposed is a step in the right direction though the date chosen is far too late. Reference is made in a report entitled "The Impact of the War upon the Private Trader," issued by the Southampton

Chamber of Commerce, to the fact that the private trader is being "immolated on the altar of Big Business." Pharmacy may well be one of the worst sufferers if steps are not taken to ward off the impending blows. On the one hand hangs perhaps the fate of the Chemists' Friends scheme, on the other the possibility of an unlimited number of shops selling drugs and proprietary medicines. While concentrating on these problems, chemists should not overlook another factor that may considerably affect the future of pharmacy, i.e. the financial policy of "Big Business." A timely illustration of the danger facing the small trader has been provided by the recent annual meeting of F. W. Woolworth & Co., Ltd., when it was announced that, out of a profit of £6,000,000, well over a quarter of a million is to be reserved for "rehabilitation" purposes when peace returns. If the war lasts only another year, and a similar sum can be put aside for the same purpose, the rehabilitation will be able to take place on a fairly liberal scale. There can be no doubt that a similar policy is being followed by other wealthy retail traders, so that the question is: What is to become of the small independent trader? He certainly cannot compete on these terms. The answer seems to lie along the lines of limiting the points of distribution, and the trend of events is at present in that direction, due to the Location of Businesses Order, shortage of pharmacists, and limitation of supplies. The Planning Committee of the Pharmaceutical Society should not lose sight of these movements, and though it cannot perhaps mould them to the needs of pharmacy it should miss no opportunity of urging the Pharmaceutical Council to take advantage of any situation that arises. The sale of drugs and medicines should not be the jumping-off ground for the individual who turns his front sitting-room into a shop, nor for the financier whose interest in the drug trade is limited to the returns on his invested capital.

## Enforcing Foodstuffs Orders

A Press notice has been issued by the Ministry of Food notifying that the Minister has made an Order—The Sampling of Food Order, 1942—which authorises Enforcement Inspectors employed by or on behalf of the Ministry and other duly authorised officers to enter any premises in which they have reasonable cause to believe that food is being manufactured, or prepared, or is deposited, or stored, or exposed for sale, and to take samples of such food for the purpose of ensuring compliance with any of the Minister's Orders or of facilitating the introduction or operation of any scheme of control. These officers may take samples of any article of food, notwithstanding any restrictions upon the purchase or obtaining of such articles contained in the Rationing or other Orders of the Minister for the time being in force.

We are advised that copies of this Order will not be available for a few days and the date of the commencement of enforcement has not yet been disclosed. With the steadily increasing range of foodstuffs in short supply and the corresponding development in the production of substitutes, an Order of this drastic nature may be justified in the public interest. There are regulations controlling in various ways the production and method of description of these substitute articles of food, and the time allowed for clearing old stocks of such goods which are not licensed is running out. While the Order is chiefly concerned with the normal goods of another class of trade, there are some lines, such as cod liver oil, invalids', infants and proprietary foods and liquids, flavouring substances, etc., which are stocked by most pharmacies, and such products may be considered to come within the scope of the Order, details of which we shall publish as soon as it is available.

## Medicamenta in Excelsis

The "Journal of the Naoctic" (National Association of Clerks to Insurance Committees) records in its March issue a case of an insured person who, during the last five years, has received over five hundred prescriptions for prostigmin at a total cost of over £2,000. This is probably a record for costly Insurance treatment, though similar cases have been reported from time to time. The drug is administered by injection, and the patient is now using about

140 c.c.s a week. If this is obtained in 1-c.c. ampoules (the listed size) the chemist's annual supply of ampoules must be in the region of 8,000.

### Costs and Fees

It is not known by what stages the increased doses—originally the patient was having 5 c.c. daily—were made but, from the method of payment laid down in the Drug Tariff, this is immaterial in calculating what proportion of the amount of £2,036 went to the chemist in fees. Purchase tax must have been paid for one quarter of the period of five years during which the patient has been undergoing treatment, i.e. it amounts to one-twenty-fourth of that proportion of £2,036 which represents the cost of drugs. As will be seen, the average cost per prescription was £4, and this figure is compatible with the average cost of prostigmin, without tax or fees, being £3 15s. The dispensing fees on this amount would be 6d. for the first 10s. and 1d. for each 5s. thereafter, making 3s. 9d. in all, or £95 over the whole period. In terms of percentages, this represents an average gross profit to the chemist concerned of 5 per cent. This margin is entirely inadequate even to meet overhead expenses. The ordinary profit on the amount of prostigmin apparently supplied would have been at least £360.

It is, of course, satisfactory to know that, so far as the patient is concerned, there is no barrier to his receiving the correct treatment whatever the cost, but once again the inadequacy of N.H.I. payments to chemists is plainly demonstrated.

## Black Market—Increased Penalties

In a recent editorial, "Price-regulated goods" (*C. & D.*, March 7, p. 285), commenting on black market and other forms of trading contrary to the national interest, we said "All power to the authorities to stamp out the isolated black spots. . . ." Under the Defence Regulations, the Home Office has prescribed increased penalties for black market offences, which came into force on Monday last, March 23. The Home Secretary has called attention to the responsibility resting on the Courts to do all they properly can to eradicate the evil by imposing on offenders penalties of a deterrent character. The main effect of the amendments is as follows: Any person who contravenes an order for the control of goods, who steals a controlled article, receives one knowing it to be stolen, or receives a commission in respect of a transaction constituting a breach of the control (unless he proves that he had no reason to believe that it did constitute such a breach) is liable to the following penalties: on summary conviction, a fine not exceeding the maximum amount shown below, or imprisonment for a term not exceeding one year, or both; or on conviction on indictment, a fine not exceeding the maximum amount shown below, or penal servitude for a term not exceeding fourteen years or both. The minimum amount on either summary conviction or indictment is such amount as will secure that the offender derives no benefit from the offence. The maximum amount is on summary conviction an amount which exceeds the minimum amount by £500 or by the treble penalty, whichever is the greater, and on conviction on indictment an amount which exceeds the minimum by £5,000 or by the treble penalty, whichever is the greater.

The expression "treble penalty" means in a case where the offence was a sale or purchase of or offer to sell, or to buy, a controlled article at too high a price, an amount equal to three times that price; and in any other case, an amount equal to three times the price which the article might be expected to fetch if lawfully sold. In special circumstances a competent authority or the Director of Public Prosecutions may require that cases shall not be dealt with summarily, and the Director of Public Prosecutions may require unusually grave cases to be committed to Assizes.

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CLOSED ON SATURDAYS.—Advertisers and subscribers are reminded that owing to war conditions the Head Office of THE CHEMIST AND DRUGGIST, 28 Essex Street, London, W.C.2, is closed on Saturdays until further notice. Urgent instructions relating to advertising and subscriptions should be sent to the *C. & D.*, c/o The Pitman Press, Bath, Somerset.

# PHARMACY IN PORTUGAL

PHARMACEUTICAL specialities have been manufactured in Portugal for the last sixty years, but the industry developed to such an extent about fifteen years ago, that with the exception of certain glandular products, serums, vaccines and arsenicals the Portuguese market can be adequately supplied and an allowance made for export.

In the National Assembly of Manufacturers of Pharmaceutical Specialities recently constituted, forty laboratories are already represented, not including the chemists' laboratories, which also make specialities, and which, following an official ruling, must also soon join the Assembly. These latter total about thirty-five.

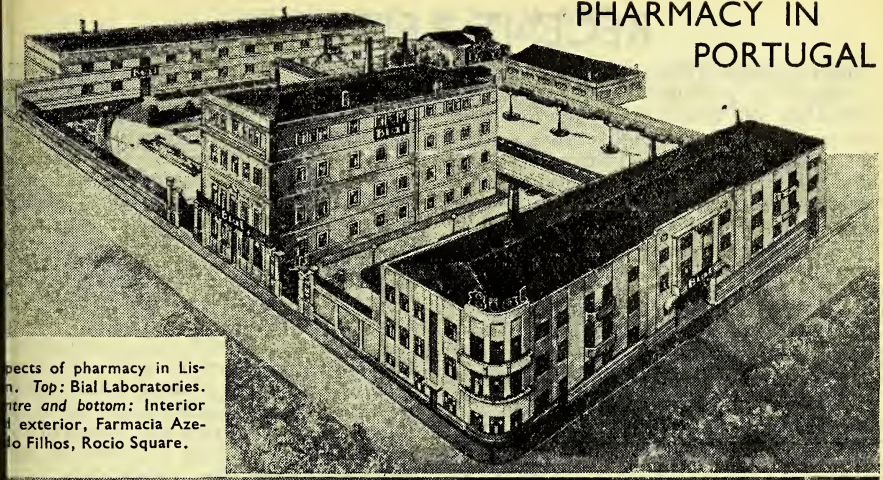
**New Legislation.**—The creation of this Assembly has resulted in the bringing up to date of legislation dealing with pharmaceutical specialities, and in the creation of the Regulating Commission for Chemical and Pharmaceutical Products, an economic organisation which will presently inaugurate a laboratory for the scientific verification and analysis of all chemical and pharmaceutical products imported or manufactured in Portugal. It is hoped that these measures will strengthen the national industry for the manufacture of pharmaceutical products, and thus benefit public health, by the selection of the raw materials used in the finished products. Photographs accompanying this article are of the Bial Laboratories and of the premises of one of the leading Lisbon chemists, Azevedo Pharmacy, in the Rocio Square. The forty laboratories belonging to the Assembly manufacture today about 1,500 pharmaceutical specialities, and if are added those made by chemists (retail) on an industrial scale, the total becomes about 2,200.

**Total Sales.**—In 1940 3,180,000 units manufactured in Portugal represented a turnover of 40 million escudos (£400,000), as against 2,475,513 foreign-made units, which shows a considerable increase in the national industry, which only a few years ago sold less than 30 per cent. of the units consumed. At the moment the national industry is struggling with the shortage of certain products, especially chemicals. The directors of the Assembly state that if Great Britain, in her present need due to the war, wished to utilise their industry, it could be arranged under the most favourable conditions, if certain raw materials could be supplied. It is also considered that British manufacturers would consequently gain because Portuguese pharmaceutical specialities are normally the cheapest owing to the low labour costs and furthermore, special contracts could be arranged. It is felt that, by these means, Britain would benefit at the same time as she gave work to thousands of Portuguese who are at present struggling with the great difficulties caused by the European blockade. The directors ask British statesmen to study this question and are willing to send a commission to London to present their offers. They believe also that Britain would benefit in that she would have a market for certain chemicals now and after the war, Portuguese manufacturers having become accustomed to using British raw materials.

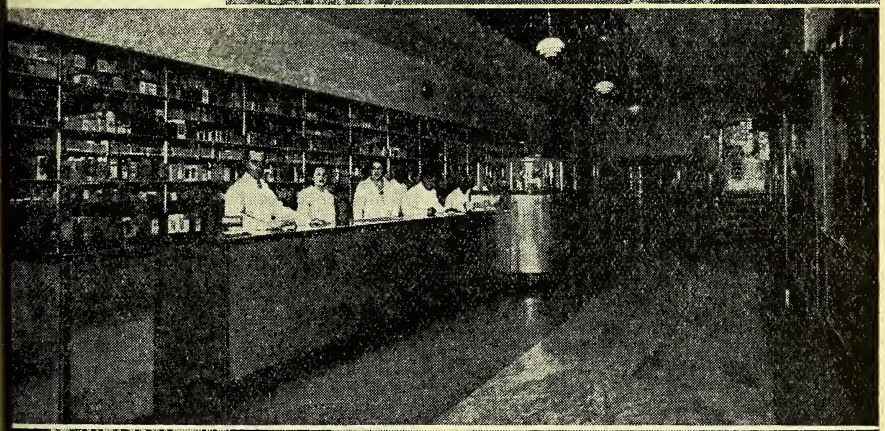
**Retail Trade.**—Chemists' shops in Lisbon are well stocked and window displays are good. The writer has seen German and Portuguese aspirin, but no British. On the other hand, British toothbrushes and certain specialities are generally freely available. Generally speaking, British goods at the time of writing are better represented by confectionery, tobacco, beers and spirits than by chemists' goods. German pharmaceutical goods seem to be plentiful. As many thousands of foreigners stay in Portugal waiting for ships and aeroplanes to leave Europe, there are valuable sales to be made, both from the prestige and habit-creating points of view. It should be remembered that by English standards many of the Portuguese are not well-to-do. Cheap packs, with pictorial advertising, should be designed for this class. It should also be remembered that including the Portuguese Empire and Brazil, some seventy million people speak Portuguese although only about one-tenth inhabit Portugal itself.

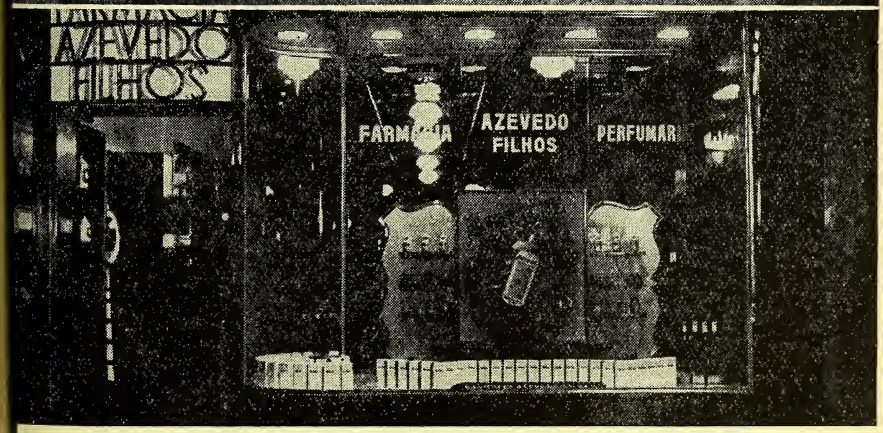
French cosmetics and perfumes are now being imported and, as there is a market for high-class goods, it might be necessary to manufacture them in Portugal. It must not be thought that the climate excludes cures for coughs, colds and such like. There are sudden changes of temperature which result in many colds. Again, while the food is different, the Portuguese do themselves well at table and digestive troubles are about as common as in England. The women dress well, and spend a good deal on cosmetics and perfumery and at the hairdresser. Brilliantine is in great demand owing to the climate.

# PHARMACY IN PORTUGAL



pects of pharmacy in Lis-
n. *Top:* Bial Laboratories.
ntre *and bottom:* Interior
d exterior, Farmacia Aze-
do Filhos, Rocio Square.





# RECENT RESEARCH

**Determination of Phenothiazine.**—Cupples has found it possible to standardise the conditions of bromination of alcoholic solutions of phenothiazine so that consistent results are obtained in measuring the intensity of the red colour produced by bromine in such solutions ("Industrial and Engineering Chemistry," Analytical Edition, January, p. 53). The procedure adopted was to add 5 c.c. of saturated bromine water quickly to 50 c.c. of 95 per cent. ethyl alcohol containing up to 4,500 micrograms of phenothiazine contained in a 100-c.c. volumetric flask previously warmed to 60° C. The stoppered flask was allowed to stand fifteen minutes in an oven at 60° C., and a second 5 c.c. of saturated bromine water was then quickly added. After the flask had stood ten minutes longer, the excess bromine was boiled off, and the solution was cooled, diluted to definite volume, and filtered through a folded filter, the funnel being covered to minimise evaporation. Photometric measurements were made on the filtrate, after the first 25 c.c. had been discarded. The precision of measurement of the method is approximately one-tenth division at the mid-point of the photometer scale, amounting to ± 2 per cent.

**Mucilages in Pharmacy.**—In a study of the applications of mucilages in the making of various pharmaceutical preparations, Osborn and Dekay ("Journal of the American Pharmaceutical Association," Practical Pharmacy Edition, 1941, II, 420) reached the conclusion that mucilages prepared from artificial and natural gums are of equal value. The substances examined included sodium alginate, methyl cellulose, acacia, Irish moss, karaya, pectin, quince and tragacanth. They were tested for their suitability as vehicles in hand lotions, as emulsifying agents, as suspending agents, as granulating agents in tablet manufacture, as excipients for pills, and as ointment bases. The authors considered that acacia, Irish moss and tragacanth yielded pharmaceutically acceptable mucilages, but the other natural gums tested (karaya, pectin, quince) did not. In almost every pharmaceutical preparation it was possible to substitute a mucilage prepared from an artificial source for one prepared from a natural source without decreasing the pharmaceutical value of the preparation. The mucilages of quince seed and sodium alginate were the most susceptible to incompatibility with the reagents tested; the official mucilages and those of karaya and methyl cellulose were the most stable. Formaldehyde (0·1 per cent.) was found to act as a preservative for the mucilages studied; esters of parahydroxybenzoic acid (0·1 per cent.) had also excellent preserving powers in these mucilages.

**Vitamin C in Kohlrabi.**—A comparison of the vitamin C content of kohlrabi and other "root" vegetables has been made by Warne ("British Medical Journal," March 21, p. 387.). Kohlrabi (*Brassica oleracea Caulo-rapa*), not widely grown in Great Britain, is a form of cabbage with a turnip-like stem that stands quite above the ground. It differs from the turnip in that the fleshy swollen part is developed from the stem above the cotyledons. It is essentially a stem vegetable, although generally referred to as a "root" vegetable. It is generally utilised as a cooked vegetable, but the raw grated stem forms an acceptable component of winter salads and is an especially rich source of vitamin C. The following vitamin C comparison was determined by titration of a metaphosphoric-trichloracetic acid extract of the material with 2 : 6-dichlorophenol-indophenol.

*Vitamin C Content of Raw "Root" Vegetables*

| | Vitamin C (mgm. per 100 gm.) |
|---|---|
| Swede turnip | 14 |
| Hamburg parsley | 15 |
| Turnip, var. 1 | 18 |
| ,, ,, 2 | 24 |
| ,, ,, 3 | 20 |
| ,, ,, 4 | 22 |
| Kohlrabi, var. early green 1 | 47 |
| ,, ,, ,, ,, 2 | 66 |
| ,, ,, ,, ,, 3 | 52 |
| ,, ,, ,, ,, 4 | 59 |

The kohlrabi is seen to be much richer in vitamin C than the other "root" vegetables tested; in this respect it is comparable to water-cress (average 61 mgm. per 100 gm.). About 3½ oz. of raw kohlrabi would satisfy the daily vitamin C requirements (50 mgm.) of a normal adult person. Clearly we have here a source of vitamin C not appreciated before and unfortunately not available to most people. Varieties of kohlrabi are often grown on a field scale for stock feeding, and so it should not prove difficult to organise a supply adequate to satisfy an appreciable part of our national vitamin C requirements during winter, when other sources (green vegetables and fruit) are not available.

# TRADE REPORT

**Spot quotations for pharmaceutical chemicals, crude drugs and essential oils represent the prices for wholesale quantities of standard quality. C.i.f. quotations do not include marine war risk insurance and other abnormal charges payable in the present emergency**

## 28 Essex Street, W.C.2, March 25

ALTHOUGH business has been quiet on the markets, individual merchants report a fair volume of trade in goods for immediate consumption. Under such conditions market prices are not easy to assess, and the values mentioned in different quarters often show considerable variations. In PHARMACEUTICAL CHEMICALS, business has been of routine character, with prices firmly maintained. There appears to be a general shortage of packages in this section, particularly of large glass containers and outers, and consumers are asked to assist manufacturers by arranging for their prompt return.

### Crude Drugs

The demand for crude drugs has been fair throughout the week, and prices show no material alteration. Spot supplies of CONITE ROOT seem to have been practically cleared. Business in Japanese AGAR has been negligible, probably on account of the high prices now ruling. There are no signs of any immediate deliveries of Curaçao ALOES. ARECA NUTS are now in meagre supply. Selling prices of ARSENIC have been announced by the Ministry of Supply. BALSAM OF TOLU has been in considerable inquiry, but little is available. A moderate inquiry only has been received for CAMPHOR. Buyers of CASCARA SAGRADA are still waiting news of arrangements for distribution under the Lease-Lend Act. Some inquiries have been noted for CHERRY BARK. Considerable interest has been taken in CINCHONA BARK, but available supplies of higher-testing are insufficient to meet the demand. Portuguese DIGITALIS LEAVES show a further decline. Reports from Brazil indicate that rainy conditions may delay the collection of IPECACUANHA. JALAP is easier. It is understood that supplies of Russian LIQUORICE ROOT are now available in this country. PIMENTO shows a further advance of one penny per lb. on the week. Any further supplies of SLIPPERY ELM BARK are likely to be imported under the Lease-Lend Act.

### Essential Oils

The week has again been extremely quiet, with few price changes to record. There appears to be some divergence of opinion between buyers and sellers of ANISE (STAR) as to the value of this oil. LIME is scarce. High prices continue to rule for PEPPERMINT. It is announced that applications for import licences for the following essential oils should now be completed, in duplicate, on the standard application form, and addressed to the Ministry of Food, Portman Court, Portman Square, London, S.W.1: Caraway, grapefruit, lemon, lime, nutmeg, orange, peppermint, sassafras, spearmint and wormseed. Applications for import licences for other essential oils should be sent as formerly to the Import Licensing Department, 1–6 Tavistock Square, London, W.C.1, but not in duplicate.

### Exchange Rates on London

No movements have occurred in exchange rates during the week. The following were Bank of England fixed rates at the opening on March 25: New York, 4·03 dollars; Montreal, 4·45 dollars; Lisbon, 100 escudos; Stockholm, 16·90 kroner; Zurich, 17·35 francs; Buenos Aires, 17·04⅜ paper pesos; Netherlands West Indies, 7·60 florins. The official Madrid rate remains at 40·50 and the free rate at 46·55 pesetas. The Chinese national dollar is at 3 1/16d.

## Pharmaceutical Chemicals

ACETANILIDE.—For B.P.C. crystals and powder the price would be about 2s. 4d. to 2s. 6d. per lb., according to quantity.

ALLOBARBITONE.—The price quoted by British makers remains steady at around 60s. per lb.

AMIDOPYRINE.—The value of any small available supplies would be in the region of 45s. per lb.

ATROPINE.—Makers' prices continue steady: ALKALOID, 28s. per oz., 4 oz., 28s. 6d., and 25 oz., 28s. per oz. SULPHATE, 23s. per oz.; 4 oz., 22s. 6d., and 25 oz., 22s. per oz. Bottles, under 5-gm. or ¼-oz., corked, 3d.; stoppered, 5d.; 5-gm. to 25-gm. or ¼-oz., corked, 3½d.; stoppered, 6d.; 25-gm. or 1-oz., corked, 3½d.; stoppered, 7½d.; 50-gm. or 2-oz., corked, 4d.; stoppered, 9d. each; 100-gm. and over, included in price; tubes, per 100, 5-gr., 10s. 6d.; 10-gr., 12s. 3d.; 15-gr., 14s.

BENZALDEHYDE.—Prices are steady at between 5s. and 5s. 6d. per lb., with no change in the supply position.

BENZOIC ACID.—Fair supplies are available for medicinal purposes at around 2s. 6d. to 3s. per lb., according to quantity.

BENZYL BENZOATE.—Supplies are reserved for medical use. Price would be about 4s. 6d. to 5s. per lb.

BORAX and BORIC ACID.—The last price change occurred on November 24, 1941, when prices were standardised, as follows—

| | Commercial | B.P. quality |
|---|---|---|
| | per ton | per ton |
| BORAX: | | |
| Granulated .. | £31 10s. | £39 10s. |
| Crystal .. .. | £32 10s. | £40 10s. |
| Powder .. .. | £33 0s. | £41 0s. |
| BORIC ACID: | | |
| Granulated .. | £52 15s. | £60 15s. |
| Crystal .. .. | £53 15s. | £61 15s. |
| Powder .. .. | £54 15s. | £62 15s. |

Packed in one-cwt. bags, delivered carriage paid Great Britain, in one-ton lots and upwards.

GALLIC ACID.—Prices are now in the region of 6s. 6d. upwards per lb.

GLYCERIN.—Current rates for small lots are as follows: 1-cwt. drum, 86s. per cwt.; 56-lb. tin, 94s.; 28-lb. tin, 97s.; 14-lb. tin, 100s. per cwt. All prices are subject to discount of 2½ per cent. for cash in twenty-eight days.

METHYL SALICYLATE.—No alterations have been notified in makers' prices: Five cwt., 1s. 10d. per lb.; one cwt., 1s. 10½d.; smaller lots, in bottles, 2s. 0½d. per lb.

PHENAZONE.—About 19s. per lb. would be the price of any available small supplies.

PHENOLPHTHALEIN.—Makers' prices are unaltered: Less than 7 lb., 4s. 3d. per lb.; 7 lb., 4s. 2d.; 14 lb., 4s. 1d.; 28 lb., 4s.; 1 cwt., 3s. 11d.

β-PHENYLISOPROPYLAMINE.—Fair supplies are available from British makers at approximately 150s. per lb.

PILOCARPINE.—Details of makers' latest prices were given last week (p. 343).

POTASSIUM PERMANGANATE.—The following are makers' present scales of prices: B.P., in 1-cwt. drums.—From 1 cwt., 1s. 10d. per lb.; from 3 cwt., 1s. 9½d. Technical, in 1-cwt. drums.—From 1 cwt., 170s. 6d. per cwt.; from 3 cwt., 166s.; from 5 cwt., 163s. 6d.; from 1 ton, 161s.; from 4 tons, 158s. 6d. Technical, in 5-cwt. drums.—From 5 cwt., 161s. per cwt.; from 1 ton, 158s. 6d.; from 4 tons, 156s. 3d. Net, delivered nearest railway station in Great Britain, drums extra and returnable.

SALICYLIC ACID.—For makers' current price schedule, see *C. & D.*, March 21, p. 343.

SANTONIN.—Home-trade prices are unaltered; 15 kilos and over, £46 10s.; not less than 10 kilos, £47 5s.; not less than 5 kilos, £48 5s.; less than 5 kilos, £50 per kilo, delivered free in the United Kingdom; 1-kilo packages free.

SULPHONAL.—Supplies remain scarce and any small available quantities would be worth about 45s. to 47s. per lb.

TANNIC ACID.—Any available small supplies would be worth about 7s. per lb.

STRYCHNINE SALTS.—British makers' prices per oz. are as follows:—

| Compound | Under 100 oz. | 100 oz. and under 500 oz. | 500 oz. and over |
|---|---|---|---|
| | s. d. | s. d. | s. d. |
| Alkaloid, crystalline .. .. | 3 0 | 2 10½ | 2 9 |
| Alkaloid, precipitated .. | 3 0 | 2 10½ | 2 9 |
| Acetate .. .. .. .. | 3 2½ | 3 1 | 2 11½ |
| Arsenate .. .. .. .. | 3 1 | 2 11½ | 2 10 |
| Arsenite .. .. .. .. | 3 2½ | 3 1 | 2 11½ |
| Bisulphate .. .. .. .. | 2 4½ | 2 3 | 2 1½ |
| Hydrochloride .. .. .. | 2 9½ | 2 8 | 2 6½ |
| Hypophosphite .. .. .. | 5 6 | 5 4½ | 5 3 |
| Nitrate, crystalline .. .. | 2 9½ | 2 8 | 2 6½ |
| Nitrate, powder .. .. .. | 2 9½ | 2 8 | 2 6½ |
| Nitrate, powder, No. 2 .. | 2 3 | 2 1½ | 2 0 |
| Phosphate .. .. .. .. | 3 7½ | 3 6 | 3 4½ |
| Sulphate, neutral, crystalline .. .. .. .. .. | 2 6 | 2 4½ | 2 3 |
| Sulphate, neutral, powder | 2 6 | 2 4½ | 2 3 |
| Sulphate, neutral, powder No. 2 .. .. .. .. | 2 1 | 1 11½ | 1 10 |

25-oz. containers and outer cases free; smaller packages extra. Contracts may be booked for quantities of 100 oz. and over, with rise-and-fall clause, for a period of six months. Terms net thirty days. Wholesale distributors' prices for small quantities would be dearer.

## Crude Drugs

ACONITE ROOT.—Supplies are restricted, but demand is quiet. Dealers' price for any available small lots would be in the neighbourhood of 2s. per lb.

AGAR.—Business in this commodity has been reduced to very small proportions, but there are still a few bales of unrestricted Kobe No. 1 on offer at around 65s. to 75s. per lb., with a little business reported done at the former figure. Material for bacteriological use is still offered at about 25s. to 30s. per lb.

ALOES.—Forward quotations for Curaçao remain at about 450s. per cwt., but there are no signs of any coming along. Spot price of Cape would be about 57s. 6d. per cwt.

ANTIMONY.—English minimum 99 per cent regulus remains in steady demand with the price at £120 per ton, delivered; 70 per cent crude for home trade is unaltered at £100 per ton, delivered.

ARECA NUT.—Spot supplies appear to be practically exhausted. Any remaining small lots would be worth about 5½d. to 7d. per lb.

ARSENIC.—The Ministry of Supply announces that the selling prices to consumers, according to grade, of Arsenic Distributors, Ltd., are as follows: Delivered direct from port (20-ton lots or over): White, 99–100 per cent., £40; 98–99 per cent., £39; 96–97 per cent., £38; 95 per cent., £37. Grey: 96–97 per cent., £36; 95 per cent., £35. Ex store: White, 99–100 per cent 10-ton lots or over, £43; 2 to 10-ton lots, £44 1 to 2-ton lots, £45; under one-ton lots, £46 other grades at proportionate reductions.

BALSAMS.—A rather better inquiry has been eceived for *Tolu*, but spot supplies are difficult o find; price would be approximately 9s. to s. 3d. per lb. A parcel of *Peru* reported on the ay will be worth about 7s. 9d. to 8s. per lb., nded and duty paid. *Copaiba*, B.P., is unhanged at about 9s. per lb., nominal, and *anada*, about 7s. 6d. per lb., ex store U.K., uty paid.

BENZOIN.—Demand for Sumatra has reained good, and regular dealers continue to ll at from £12 upwards per cwt. Free almondy offering on spot at between £25 and £30.

BISMUTH METAL.—High-grade metal is quoted t 6s. 3d. per lb. for minimum 5-cwt. lots.

BUCHU.—In fair demand, but supplies are ot plentiful. Holders of fair green rounds ould require about 5s. 9d. to 6d. per lb. No plenishments are coming in.

CALUMBA ROOT.—Dealers' prices for good ashed would be in the region of 16os. per cwt.

CAMPHOR.—Inquiry has been moderate. inese B.P. powder is selling to approved yers at about 11s. 6d. to 12s. per lb., with a w Japanese slabs at around 11s. 6d., and me Chinese crude (92 per cent.) at about 10s. 10s. 6d. per lb. Restricted quantities of nglish synthetic B.P. are understood to be ailable to approved consumers at 7s. per lb.

CARDAMOMS.—Quiet, with values of all scriptions steady. Current prices are as lows: Spot, Aleppy greens, 5s. 3d. per lb.; eppy seed, 6s.; Bombay seed, 5s. 6d.; ngalore seed, 6s.; shipment, Aleppy greens, per lb., c.i.f.; Bombay seed, 4s. 10d., c.i.f.; ngalore bleached A, 5s. 3d., c.i.f.; Mangalore ached B, 4s. 9d. per lb., c.i.f.

CASCARA SAGRADA.—No news has been eived of importation and distribution under Lease-Lend Act. In the meantime spot yers of 1941 peel would have to pay about s. per cwt., but stocks are becoming low.

CASCARILLA.—Still obtainable on spot at ut 3s. 3d. per lb. for quills and 2s. 6d. per for siftings.

CHILLIES.—Demand has been steady, but le business is reported. Prices are unchanged, follows: Spot, Zanzibar, 175s. per cwt.; mbasa, 175s., sellers; Sierra Leone and dian, both 170s. per cwt., duty paid.

CHERRY BARK.—Some inquiry has been ed, but none appears to have been imported some time. Future supplies may be made ilable under the Lease-Lend Act.

CINCHONA BARK.—All grades have been in siderable inquiry, but supplies are difficult ind. Numerous orders are believed to have n sent to South America, but so far no iness appears to have resulted. Any avail- spot supplies of lower-testing bark (6 to 7 cent.) would be worth approximately 9d. per lb.

CLOVES.—Steady and unchanged, with sellers Zanzibar on spot at 2s. 4d. per lb.; Madacar, unquoted.

COCHINEAL.—Supplies are restricted. Spot, grey, about 5s. per lb.; black, about 5s. 3d.

COLCHICUM.—Remaining spot supplies of Indian corms are meagre and would be worth about 2s. 9d. to 3s. per lb.

COLOCYNTH.—Spot supplies of fine white pulp seem to be practically exhausted, but any remaining lots would fetch about 4s. 9d. per lb.

DANDELION ROOT.—Fair sales have been made, leaving spot supplies rather depleted. No replenishments are coming in at present.

DERRIS ROOT.—The position is unaltered. It is understood that c.i.f. offers of 4 per cent. timbo powder have been made at around 300s. per cwt., without business resulting.

DIGITALIS LEAVES.—Portuguese leaves are again quoted lower on spot at between 105s. and 110s. per cwt., ex store.

DRAGON'S BLOOD.—Fair re-boiled continues nominal at £40 per cwt.

ERGOT.—Market remains steady and quiet, with prices unchanged. Spot, about 7s. 6d. per lb.; shipment, about 7s., c.i.f.

GINGER.—Quotations are nominal, pending the fixing of maximum prices by the Ministry of Food. West African, spot, 185s. per cwt.; Cochin unwashed, spot, 182s. 6d., quoted.

The final report on the ginger crop of the Madras Province for 1941 ("Indian Trade Journal") states that the area under ginger during that year is estimated at 11,600 acres in Malabar and at 600 acres in South Kanara, as against the actual area of 11,541 acres in Malabar and 655 acres in South Kanara in the previous year. The condition of the crop is satisfactory and the seasonal factor is estimated to be normal in both the districts, as against 95 per cent. in Malabar and 100 per cent. in South Kanara in the previous year. On this basis, the total yield is estimated at 4,360 tons of dry ginger (4,150 tons in Malabar and 210 tons in South Kanara), as against the same figure in the previous year (4,070 tons in Malabar and 290 tons in South Kanara).

GRAINS OF PARADISE.—Dealers would require about 1s. 10d. per lb. for small spot supplies.

GUM ACACIA.—Unchanged. Kordofan cleaned sorts, spot, unrestricted, 225s. per cwt., nominal; restricted, 200s. per cwt.; shipment, 70s. per cwt., nominal, c.i.f.

IPECACUANHA.—Continues firm, with a fair business passing. Reports from Brazil indicate that owing to adverse weather conditions collections may be delayed. Matto Grosso, spot, about 18s. 3s. per lb.; shipment price for March–April would be nominal at about 16s. per lb., c.i.f.; the March–April shipment price for Minas is around 11s. 4d. per lb., c.i.f., making the spot value about 12s. 3d. per lb. Current prices for EXT. IPECAC. LIQ., in winchester quarts, are as follows: B.P., 1932, under three, 26s. per lb.; three and under six, 25s. 6d.; six and under twelve, 25s.; twelve and over, 24s. 6d. per lb. B.P., 1914, under three, 24s. per lb.; three and under six, 23s. 6d.; six and under twelve, 23s.; twelve and over, 22s. 6d. per lb., all prices net.

JABORANDI.—About 55s. to 60s. per cwt. would be the spot price for fair quantities, but single bales would be dearer.

JALAP.—Easier conditions obtain for Brazilian 16 per cent. which is now offered at about 120s. per cwt. on spot.

LIQUORICE ROOT.—It is understood that some Russian root is now available on spot at £60 per ton.

MENTHOL.—Rather quieter conditions obtain. Small lots of Chinese are selling on spot at about 72s. 6d. to 75s. per lb., and some Japanese at about the latter figure.

NUX VOMICA.—Some business is reported done in Cocanada on spot at 32s. 6d. per cwt. Holders of small lots of Cochin are asking about 37s. 6d. per cwt. on spot.

ORANGE PEEL.—Available supplies are limited; spot price would be in the region of 2s. 9d. to 4s. per lb., according to grade and holder.

PAPAIN.—Small supplies are available on spot at about 16s. to 17s. per lb.

PEPPERS.—The maximum spot price in bond of unpicked whole black Lampong is 5d. per lb., and of whole white Muntok, 8d. per lb.

The final report on the pepper crop of the Madras Province for 1941 ("Indian Trade Journal") states that the area under pepper during that year in Malabar and South Kanara is estimated at 105,600 acres (97,000 acres in Malabar and 8,600 acres in South Kanara), as against the final area of 104,112 acres (95,371 acres in Malabar and 8,741 acres in South Kanara) in the previous year. In Malabar the crop is reported to have been affected to some extent by heavy rains and cyclone in May–June and by the heavy rains in November. The seasonal factor is estimated at 95 per cent. of the normal in Malabar and 100 per cent. in South Kanara, as against 100 per cent. in both the districts in the previous year. On this basis, the yield is estimated at 9,680 tons (8,850 tons in Malabar and 830 tons in South Kanara), as against 9,990 tons (9,140 tons in Malabar and 850 tons in South Kanara) estimated in the previous year.

PIMENTO.—Spot shows a further advance to 2s. per lb., paid; shipment, March–April, 145s. per cwt., nominal, c.i.f.

PODOPHYLLUM.—Spot price of *Emodi* varies according to test; for 15 per cent., value would be about 70s. per cwt.

QUILLAIA BARK.—Spot stocks seem to be practically exhausted, but further supplies are expected.

RHUBARB.—Fair inquiry has been received, and dealers are selling rough-round on spot at between 7s. 3d. and 7s. 9d. Shensi, in small supply, would be worth about 9s. to 9s. 6d. per lb.

SARSAPARILLA.—There has been a good demand for native reddish and a parcel just landed is held for about 3s. per lb.

SEEDS.—ANISEED.—Spot, nominal at 165s. CANARY.—Spot, no stocks available. CARAWAY.—Dutch, spot, nominal at 365s. CORIANDER.—Indian, spot, sold at 80s., duty free; English, quoted at 210s. CUMIN.—Malta, spot, 155s., duty free; Indian, 150s. DILL.—Spot, not quoted. FENNEL.—Indian, spot, 90s., duty free. FENUGREEK.—Spot, nothing offering at present. MUSTARD.—English, 115s. to 130s., according to quality.

SENEGA.—Holders of small spot supplies would require about 7s. 3d. to 7s. 6d. per lb. Recent applications for import licences are understood to have been refused.

SENNA.—Hand-picked Alexandrian pods are in rather restricted supply on spot and would be worth about 4s. 6d. to 5s. 6d. per lb.; Alexandrian leaves, siftings, are at about 1s. 3d. per lb.; the spot price of hand-picked Tinnevelly pods remains at between 1s. 3d. and 1s. 5d. per lb. for selected and about 8s. per lb. for f.a.q.

SHELLAC.—Quiet, with values unchanged. Standard TN orange, spot, 197s. 6d. per cwt., value; shipment, unquoted. Pure button, unquoted; fine orange, 240s. to 290s. quoted.

SLIPPERY ELM BARK.—Stocks seem to have been cleared. Any further supplies are likely to be imported under the terms of the Lease Lend Act.

SQUILL.—Supplies are plentiful, with spot prices ranging between 75s. to 90s. per cwt. according to colour.

STROPHANTHUS SEED.—A parcel of Kombé 100 per cent., recently arrived, is being offered at 10s. 6d. to 11s. per lb., according to quantity.

TRAGACANTH.—Values of medium grades are unchanged: No. 1, white, £150; No. 2, white £155; No. 3, white, £115; pale leaf, £105; amber leaf, £85; red leaf, from £40; woody and hoggy, from £25, ex store.

TURMERIC.—Spot, Madras finger, sound quality, 75s.; wormy, 72s. 6d.

WAXES.—BEES'.—Spot, nominal at 295s. per cwt.; in bond, no quotations; Dar-es-Salaam no quotations; Japanese, 335s. CARNAUBA.—Fatty grey, 525s.; chalky grey, 510s.; Primeira 620s. per cwt.

## Essential and Expressed Oils

ANISE (STAR).—Some business is reported done on spot at high prices. Tins in cases, spot about 52s. 6d. to 53s. 6d. per lb.; odd drums about 51s. to 52s. per lb.

BAY.—Spot price would now be in the region of 10s. to 12s. per lb., but supplies are restricted.

BOIS DE ROSE.—Spot prices are in the neighbourhood of 27s. to 30s. per lb.

CAJUPUT.—Spot prices are firm at around 15s. per lb.

CAMPHOR.—Supplies are restricted, but some odd drums of Chinese white may be found on spot at around 500s. per cwt., duty paid.

CANANGA.—Supplies are extremely difficult to find on spot, and prices are nominal at 60 per lb.

CASSIA.—The demand cannot be met, owing to lack of supplies.

CITRONELLA.—Ceylon is firm at about 16s. per lb. on spot; Java, spot, nominal at around 23s. per lb.

It is estimated that the value of citronella oil exported from Ceylon during 1941 was more than double that of 1940, owing to a sharp rise in the average price.

CLOVE.—Very little available. Makers' prices of English-distilled remain at between 15s. and 18s. per lb.

EUCALYPTUS.—Steady. 70 to 75 per cent. il on spot would be worth approximately 5s. o 5s. 6d. per lb.

GERANIUM.—Prices are nominal and would e a matter for negotiation.

GINGERGRASS.—Supplies are obtainable on ot at about 25s. per lb.

GROUNDNUT.—The official price of refined odorised will remain at £40 per ton, naked works, for bulk quantities.

LAVENDER.—Quiet, with prices at former vels. Spot, good-quality oil, about 85s. per lb.

LIME.—Scarce and firm. Genuine West dian distilled, if available on spot, would be orth about 62s. 6d. per lb.

LINSEED.—Controlled price of £41 10s. per n for large bulk quantities of crude, naked works, is unchanged. Distributors' prices for dinary quantities would be higher.

PALMAROSA.—Spot would be worth about s. per lb.; shipment, about 25s. per lb., c.i.f.

PATCHOULI.—Nominal on spot at 60s. per lb.

PEPPERMINT.—A moderate inquiry is noted, t business is restricted by the high prices now ing asked. Between 77s. 6d. and 80s. per lb. mentioned as the spot price of Chinese, cording to holder. American, 95s. to 110s.

PETITGRAIN.—The spot value would be in the gion of 25s. per lb.

PINE.—The following are the maximum prices ently fixed by the Ministry of Supply for in containers supplied by seller: 5 gall., 5d.; 10 gall., 8s. 2d. per Imperial gallon, h duty paid, ex store or warehouse, for net h. A reasonable extra charge may be added credit.

THYME.—Medium-quality, spot, about 16s.

TURPENTINE.—The following maximum prices e fixed recently by the Ministry of Supply: containers supplied by seller, 5 gall., 7s. 11d.; gall., 7s. 8d. per Imperial gallon, both duty l, ex store or warehouse, for net cash. A onable extra charge may be added for credit.

# TRADE MARKS

*(From "The Trade Marks Journal," February 25, 1942)*

RYLSHAVE"; for shaving soap and cream, soapless shaving preparations, preparations for the removal of surplus hair, and after-shaving lotion (3). By County Perfumery Co., Ltd., North Circular Road, West Twyford, London, N.W.10. 617,557 (Associated).

YSTIES"; for menstruation tampons (5). By St. Andrew Mills, Ltd., 34 St. Andrew Road, Walthamstow, E.17. 617,378.

MPLAXA"; for laxatives (5). By Thames Chemicals, Ltd., 7 King's Road, Richmond, Surrey. 617,459.

TTER BRAND" under design of setter dog; or medicines (5). By J. L. Starr, 65 Wilsthorpe Road, Derby. 616,758.

"GROVEWELL" over device of hurricane lamp; for teats and valves for feeding bottles, baby soothers, finger stalls and rubber gloves (10). By Grovewell Rubber Co., Ltd., 656 Forest Road, Walthamstow, E.17. 617,476 (Associated).

"SOSTYN"; for milk preparations, meat extracts, etc. (29), food preparations, etc. (30), and for beverage preparations (32). By Horlicks, Ltd., 9 King's Bench Walk, Temple, London, E.C.4. 615,997–98–99 (Associated).

"MASONA"; for all goods (32). By Newball & Mason, Ltd., Beech Avenue, New Basford, Nottingham. 616,977 (Associated).

*(From "The Trade Marks Journal," March 4, 1942)*

"COTTAGE GARDEN"; for perfumed sachets (3). By Papier Poudré, Ltd., 53 Great Marlborough Street, London, W.1. B 616,976.

"GERMSTROYD"; for medicated soap (3). "FLYSTROYD": for fly exterminating preparations (5). "MOTHSTROYD": for moth exterminating preparations (5). By Germstroyd Products, Ltd., Anchor Works, Asfordby Street, Leicester. B 617,206–07–08 (Associated).

"CROCKSA"; for soap (3). "GLEMAX"; for cleaning and polishing preparations (3). "GRE-SAK": for cleaning, polishing, abrasive preparations (3). By The Dubarry Perfumery Co., Ltd., Goldstone Laboratories, Hove Park Villas, Hove, Sussex. B 617,234; 617,341 and 617,694.

"KESSARINE"; for preparations for the hair (3). By Cecil Keene, Ltd., 63A Domestic Street, Holbeck, Leeds, 11. 617,429 (Associated).

Cross device limited to the colour green; for soaps, perfumery, cosmetics and dentifrices (3); and for toilet paper, etc. (16). By Newton, Chambers & Co., Ltd., Thorncliffe Ironworks & Collieries, Near Sheffield. 617,605–06 (Associated).

"CRINATONE"; for perfumery, cosmetics and preparations for the hair (3). By R. Desvaux & Co., 413 Fulham Palace Road, London, S.W.6. 617,759.

"LAXICRIN"; for all goods (5). By Paines & Byrne, Ltd., Bilton Road, Greenford, Middlesex. 617,023.

"CHAXON"; for detachable handles for safety razor blades (8). By G. V. Williamson, Hat Factory, Redhouse Lane, Bredbury, Cheshire. 617,576.

"SCALITE"; for photographic apparatus, etc. (9). "STATFILE"; for photographic apparatus, etc. (9) and for paper stationery and easels (16). By Photostat, Ltd., Adelaide House, King William Street, London, E.C.4. 617,237; 617,617–18 (Associated).

"TOBY"; for paper, paper goods, adhesive materials, etc. (16). By Dennison Manufacturing Co., Ltd., Rembrandt Works, Hagden Lane, Watford. 616,432.

"ICENIA"; for snuff (34). By Hedges (Chemists) Ltd., 10–12 Dale End, Birmingham, 4. 616,942 (Associated).

# CORRESPONDENCE

**Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor**

## Subsidising N.H.I.

SIR,—I recently dispensed the following National Health Insurance script:—

℞ Ungt. Renaglandin Anæsthetic.
1 tube
Sig. Apply as dir.

I figure that this script caused me a loss of 2½d. (because of the inaccurate method of assessing purchase tax liability on Panel prescriptions in Scotland), a loss which is sufficient to keep a Panel patient in Scotland in medicine for approximately six weeks. It is surely past tolerance to expect the chemist from his paltry dispensing fees to subsidise the N.H.I. medical service.

Yours faithfully,
Glasgow. J. M. WILLIAMSON.

## C.F. Penalty Scheme

SIR,—Your correspondent "X" (*C. & D.*, March 7, p. 295) has made an attack upon the Chemists' Friends movement. His one error is that in his anxiety to put forward all the "cons" he has strengthened the case for the "pros." I agree with him on his first point that the offences should have been printed on the penalty form, but there his reasoning breaks down. He states that the present is not an opportune time for the agreement and that many C.F. products are short. This should be all the more reason for adherence to the scheme, as C.F. products are not the only proprietaries in short supply. The reason they stand out is because they form quite a proportion of a chemist's proprietary sales. The shortage of non-C.F. products means that the loss is smaller if we can do without them now. In any case "X" is not asked to do without them but only to forgo the bonuses given for window displays. I think "X" will agree that the C.F. scheme has benefited the pharmacist, and if this is the case it deserves support. I believe also that the manufacturers have gained, but this gain has to be compared with the gain which would have ensued by adopting a non-C.F. policy for seven years. Viewed in this manner I think it will be seen that while the C.F. firms have made profit, theirs is a long-range policy and they are angling for complete and undivided support. This would make up for the loss in distribution points and the consequent loss in sales. With regard to the complaint of "X" about multiple firms obtaining supplies in preference to private chemists, I feel sure that to report these firms and to give specific examples to the C.F. committee would cause the cessation of this state of affairs, a state which has caused me grave concern on more than one occasion, but which is not even confined to pharmaceutical products, leave alone to C.F. lines. The problem of an all-chemist company no doubt could be explained by Mr. Mallinson if "X" would write to him. I feel it is hardly fair to sabotage the scheme with such a trifle as this while Mr. Mallinson is so busily engaged defending us from the ravages of apathy in our own ranks. Finally I should like to point out that while we concentrate on the present and get on with the job in hand, our competitors have plans for the future. As an example of this fact, might I point out that the Pharmacy and Medicines Act 1941, was not passed for the benefit of, or with the consent of, pharmacy as a body but in spite of pharmacy.

Yours faithfully,
Bath. D. I. TUDDENHAM.

## Modern Pharmaceutical Policy

SIR,—Mr. King's forceful article (*C. & D.* February 28, p. 254) may upset a few of your readers, but I am sure it will have the support of the majority of realistic practical chemists and druggists. I am not a pharmacist (although interested in the profession), but I have met many Northern pharmacists (hospital and retail) during the past twenty-five years, and I can only call to mind one who was a supporter of the Council's educational policy. The question is only part of a wider one touching all examinations—that the syllabus for any of them should be practically related to the purpose of the examination, and the entrant be not required to study subjects which will be of no practical use to him afterwards. Finally, a word on this word service; the pharmacist, as is every professional man or tradesman, is in business to make a living, and he has a right to expect the public, the Society and the Government to recognise that.

Yours faithfully,
YORKSHIREMAN.

# Announcement by BAYER PRODUCTS LTD.

BAYER

Bayer Products Limited have pleasure in announcing that in spite of the war-time upward trend in costs, no general increase in the prices of BAYER MEDICAL PREPARATIONS is contemplated at present and their January 1941 Price List is therefore, in general, still current.

EXCEPTIONS are the two undernoted preparations where, due to greatly increased costs of certain of the ingredients, the following prices are now operative :

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 'THEOMINAL' Brand of PHENOBARBITONE & THEOBROMINE | TABLETS | 20's | 4/- | 'BUTOLAN' Brand of DIPHENAN | TABLETS 7½ gr. | 20's | 4/- |
| ,, ,, | ,, | 50's | 9/- | ,, | ,, ,, | 50's | 9/- |
| ,, ,, | ,, | 250's | 37/6 | | | | |

**NOW MADE IN ENGLAND**

*(Prices apply to U.K. and Northern Ireland only).*

Subject to usual discounts — Purchase Tax extra. To ensure fair distribution, the professions are asked to restrict orders to normal current requirements.

## LIMITATION OF PACKINGS

With a view to the elimination of superfluous packings it has been decided not to replace certain packings as stocks run out. Please note that the following BAYER tabletted products will, in future, only be issued in the under-noted packings:—

| TRADE MARKS * | DISPENSING PACKING | CLINICAL PACKING |
|---|---|---|
| * 'ABASIN' Brand of CETOMAL (4 gr. tabs.) | 20's and 100's | — |
| * 'ADALIN' Brand of CARBROMAL (5 gr. tabs.) | 25's and 100's | 250's |
| BAYER ASPIRIN (5 gr.) | 25's and 100's | 250's |
| ,, ,, (7½ gr.) | 20's and 100's | — |
| * 'BETAXAN' Brand of VITAMIN $B_1$ (1 mg. and 3 mg.) | 20's and 100's | 500's |
| * 'BUTOLAN' Brand of DIPHENAN (7½ gr. tabs.) | 20's and 50's | — |
| * 'CANTAN' Brand of VITAMIN C (50 mg.) | 20's and 100's | 250's |
| ,, (5 mg.) | 50's | 250's |
| * 'ELITYRAN' Brand of THYROID EXTRACT (10 G.P.U.) | 20's and 100's | 250's |
| * 'EUMYDRIN' Brand of METHYL ATROPINE NITRATE (1 mg. tab.) | 10's and 100's | — |
| * 'GARDAN' Brand of GAMMADAN (5 gr. tabs.) | 25's and 100's | 250's |
| * 'HELMITOL' Brand of FORMAMOL (5 gr. tabs.) | 25's and 100's | 250's |
| * 'ISTIN' Brand of DANTHRON (2½ gr. tabs.) | 30's and 100's | 500's |
| * 'LUMINAL' Brand of PHENOBARBITONE | 10's (3, 5 gr.) | 250's and 1,000's |
| | 50's (¾, 2, 2½, 5 gr.) | (¼, ½, 1, 1½ gr.) |
| | 100's (⅛, ¼, 1, 1½ gr.) | — |
| * 'NOVALGIN' Brand of NYNALGIN (5 gr. tabs.) | 25's and 100's | — |
| * 'NOVOCAIN' Brand of ETHOCAINE HYDROCH. | 10's | — |
| * 'PANFLAVIN' Brand of THROAT TABLETS | 30's and 100's | 1,000's |
| * 'PROMINAL' Brand of PHEMITONE (½ gr.) | 30's and 100's | — |
| ,, ,, ,, (3 gr.) | 10's and 100's | — |
| * 'PYRAMIDON' Brand of AMIDOPYRINE (1½ gr.) | 20's and 100's | 250's |
| ,, ,, ,, (5 gr.) | 25's and 100's | 250's |
| * 'THEOCIN' SODIUM ACETATE Brand of THEOPHYLLINE SOD. ACETATE (1½ gr. tabs.) | 20's | — |
| * 'THEOMINAL' Brand of PHENOBARBITONE and THEOBROMINE (tabs.) | 20's and 50's | 250's |
| * 'VERONAL' Brand of BARBITONE (5 gr.) | 25's | — |
| ,, ,, ,, (7½ gr.) | 10's | — |
| * 'YATREN' Brand of IODOMŒBIN PILLS | 25's and 100's | — |

ALL TABLETTED IN GREAT BRITAIN

BAYER PRODUCTS LTD., AFRICA HOUSE, KINGSWAY, LONDON, W.C.2

*In these trying times —*

**INDICATIONS**
General fatigue and debility, hypertension, infective conditions, night blindness.

**PACKINGS AND PRICES**

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|---|---|
| 80 tablets .. .. .. | 3/4½ |
| 250 tablets .. .. .. | 9/6 |
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**THE POTENT BRAIN & NERVE TONIC FOR MEN**

1/3 size, 7/6 doz.
2/3 ,, 13/6 ,,
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THE
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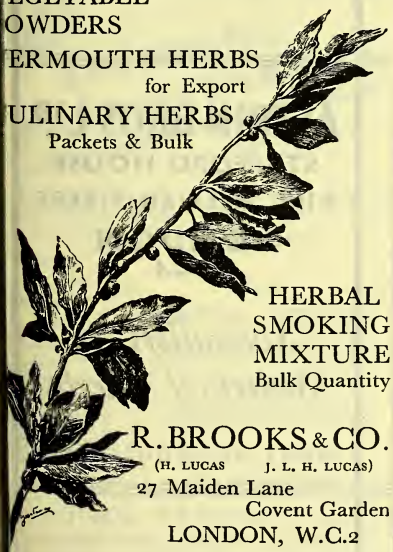

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PRIVATE FORMULAS COMPOUNDED BY EXPERTS (*Strictest Secrecy Guaranteed*)

We have specialised for many years in— **CONTRACEPTIVES** (Special Formulas), TABLETS and JELLIES

**FOR YOUR OWN GOOD**
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**SNAP PAT VACUUM CLOSURES**

*Now!*

Avoid last season's disappointments; get your stock of SNAP VACUUM CLOSURES now. Stocks available for immediate delivery. An extensive National advertising campaign will create a big demand.

Retail Price per Carton **2/6** *Plus 8d. Purchase tax*

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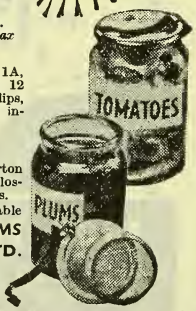


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Sulis is a British Natural Mineral Water comparable both in mineral content and palate appeal to the German and French waters which are now practically unobtainable.

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Prices, discounts and full particulars from:
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The Best and Safest Infants' Medicine of 140 years' standing

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THE MAN FROM KORAY* does his job—a good job—for you, Mr. Retailer; for you, Mr. Wholesaler; and for us.

For you, Mr. Retailer, because he helps you to profit, right away, from a great line, backed by a great national advertising campaign. A stock of Koray is on your shelves, advertising matter affixed, and you are cashing in almost before he has left your premises.

For you, Mr. Wholesaler, with your shortage of travellers and difficulty in maintaining deliveries, THE MAN FROM KORAY lays the foundation of profitable business because every subsequent order received from retail accounts is passed to the wholesaler to fill.

** THE MAN FROM KORAY has a specified function. He is essentially a "pioneer" man. When he has completed his job in one area he moves on and the resident representative of Koray then takes over, his job being to continue to afford the fullest assistance to wholesaler and retailer.*

For us, the manufacturers of Koray, he represents an invaluable link with our friends in the Trade, and we are confident that we, and all sections of the Trade with us, will benefit from the interest he has created.

To retailers requiring further stocks of Koray we say, please apply to your usual Wholesale House. To wholesalers we say, we are confident that you can meet the demand for Koray which has already been created and which is still, as yet, not fully satisfied. To all we say, if you want any help please write to us, today, personally. The writer promises you an immediate reply. The address is easy to remember.

General Sales Manager.
KORAY LIMITED, BLACKPOOL.

## FOR YOUR INFORMATION

| PRICE OF KORAY TO YOU | | PRICE TO PUBLIC |
|---|---|---|
| KORAY UNITS .. | **9/-** per unit | **3½d.** per carton of 5 tablets |
| (3 cards of 16 cartons, or 1 box of 4 doz.) | | |
| KORAY 10's .. .. | **4/6** per dozen | **7d.** per carton of 10 tablets |
| KORAY 28's .. .. | **11/3** per dozen | **1/5** per carton of 28 tablets |
| KORAY 64's .. .. | **22/6** per dozen | **2/10** per carton of 64 tablets |
| *Subject to Purchase Tax at 16⅔ per cent.* | | *Including Purchase Tax* |

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# "OXOID"

*The word "OXOID" is the trade mark of OXO Ltd., and is used in connection with their therapeutical preparations both in tablet and fluid extract form.*

ORGANO-THERAPEUTICAL PRODUCTS

**OXO LABORATORY PREPARATIONS**

For PERNICIOUS ANÆMIA

OXO LTD'S

## LIVER EXTRACT

FOR INJECTION (I.M.)

The potency of "OXOID" Brand Liver Extract for Injection in the treatment of Pernicious Anæmia is guaranteed.

The usual maintenance dose is 2 c.c. injected at weekly or fortnightly intervals. Dosage for emergency use is 4 c.c. for the first day and 2 c.c. on alternate days.

SUPPLIED IN AMPOULES OF 2 c.c. AND BOTTLES OF 10 c.c. AND 20 c.c.

Ampoules: 6 (6/6); 12 (12/6); 50 (48/-); 100 (92/-).
Bottles: 10 c.c. (4/9); 20 c.c. (8/6).

*Literature supplied on application.*

**OXO LIMITED, Thames House, London. E.C.4**

OXO LABORATORY PREPARATIONS



# CURICONES

*THE FAMOUS RHEUMATIC REMED*

## SELLING PRICES

(INCLUDING PURCHASE TAX)

As some chemists are confused about the new selling prices of Curicones they are as follows:—

**5/- 14/- 24/-**

Curicones show you 50% PROFIT on Purchase Prices, 33% PROFIT on Sales.

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Although at present supplies of Curicones are normal and we are endeavouring to maintain them as long as possible, yet as various raw materials are becoming increasingly scarce we advise chemists to re-order without delay before their stocks are depleted.

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In your district most adults suffer in some degree from rheumatic ailments.

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Curicones are a P.A.T.A. line. Our National Advertising continues with undiminished vigour.

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Examine your stocks of Curicones; there's big trade for you. It's worth while.

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# nnouncing REVISED PRICES for YESTAMIN TABLETS

*The following Revised Prices are now effective*

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|---|---|---|
| **100 Tablets** | **1/3** | **9/-** |
| **225 Tablets** | **2/6** | **18/-** |
| **300 Tablets** | **3/3** | **23/4** |

*Difficulty in obtaining suitable containers makes it necessary to discontinue the 7d. size when present stocks are exhausted and to pack other sizes in glass bottles when tins are not available.*

**YESTAMIN**
VITAMIN YEAST TABLETS

THE ENGLISH GRAINS COMPANY LTD., BURTON-ON-TRENT

**MILLAMALT** *The* TONIC MALT FOOD
With Guaranteed Complement of Vitamins A, B, C & D.
*Sole Manufacturers.* JEFFREYS, MILLER & Co. Ltd. Leyland Mills, WIGAN. London Dept. 19 Brookside Road, N. 19

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*Good! it's* **MASON'S** EXTRACT OF HERBS
The CHEMISTS' FAVOURITE for over 75 YEARS
A 9d. bottle makes 6 gallons of delicious sparkling Mason's Herb Beer. GOOD PROFITS—QUICK SALES
*Write for Trade Terms*
NEWBALL & MASON LTD., NOTTINGHAM. Est. 1850

The proof of any ointment is in its properties. The sales of this ointment are rapidly increasing.

Packed in 2 doz. display outer.

Profitable trade terms and quantity discount may be had on application.

**Price 1/5** per tube (incl. tax)

*Through all wholesalers or direct.*

# MOORE MEDICINAL PRODUCTS

LIMITED

*MANUFACTURING CHEMISTS*

**ABERDEEN and LEEDS**

*Aberdeen*
*March. 1942*

*Dear Mr. Chemist,*

*Thank you very much.*

*Our last letter in the " C. & D." of 28th February, 1942, resulted in a young shoal of letters and these, in turn, will result in a considerable number of fresh sheets in our Sales Ledgers.*

*Gratifying, we admit, but still we remain unsatisfied. That figure of 15,000 retail Chemists in Great Britain continues to dazzle us and, as a youngish firm, we must carry on our endeavour to contact you and, through you, the public.*

*BROVON ASTHMA INHALANT honestly does relieve Asthma and we will gladly send you sample bottles so that you may prove this fact for yourself.*

*HAEMOVIN is a really first-class remedy for piles and kindred troubles.*

*NEDA FRUIT CUBES for constipation are not only economical but are always effective and extremely pleasant to take.*

*Don't forget that a postcard will bring you all particulars of our products and our generous terms.*

*With compliments,*
*Yours truly,*
*MOORE MEDICINAL PRODUCTS LTD.*

**Dr. J. Collis Browne's Chlorodyne**
**and**
**The Pharmacy and Poisons Act, 1933**

Dr. J. Collis Browne's
CHLORODYNE

**SALE RESTRICTED TO REGISTERED CHEMISTS**

**PURCHASER'S SIGNATURE NOT REQUIRED**

*Sole Proprietors:*
**J. T. DAVENPORT LTD.**

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In ever-increasing demand—*and only obtainable through qualified chemists.* We would again assure our friends that supplies are being distributed as fairly as possible throughout the country.

*Orders should be sent to wholesalers on the approved C.F. list.*

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TRADE MARK REGISTERED

# *Medicine comes first*

WE have been compelled by circumstances to decline substantial business which has offered itself in bottles and jars for toilet preparations and other products which can scarcely be regarded as essential.

THIS policy enables us to meet, to the greatest possible extent, the requirements of our regular customers in bottles for medicines and pharmaceutical purposes. Even here, in common with other glass manufacturers, we are finding it difficult to keep pace with the vastly increased wartime demand.

A FAIR apportionment of our output is the goal we have set ourselves, and we ask our friends to accept our assurance that we are, as always, mindful of their needs, and are giving the best service which lies in our power, bearing in mind that priority must be given to government and export supplies.

**BEATSON CLARK & CO. LTD.**

*Manufacturers of Chemical and Medical Glass*

**ROTHERHAM, YORKSHIRE**

*Established 1751*

BC. 39

# SAMONA

*—makes life worth living*

**The Wonderful Medical Restorative which brings immediate benefit in all cases of**

**NERVE STRAIN. DEPRESSION.**
**TIRED AND LISTLESS APPEARANCE**
**MENTAL AND PHYSICAL EXHAUSTION**

Prices **3/5** and **5/7½** (more than double quantity) (*Including Purchase Tax*)

**SAMONA LTD.**
**Northington House, Northington Street, W.C**

**NO SHORTAGE OF SUPPLIES**

**GOOD PROFITS FOR THE CHEMIST**

## AN ANNOUNCEMENT

Chemists who have enquiries for tooth sticks should get in touch with Keenes Laboratories Limited, 46 Elswick Road, Newcastle-on-Tyne, 4, who are manufacturing Keenes Dental Stimulators, and these are available in fairly large quantities.

Dr. White's

**KOMPO FOR COLDS**

*Manufactured only by*

**J. F. WHITE & CO., LTD.**
**Lovington Laboratory, Benson St., Leeds,**

# There will always be an insistent demand for SHERLEY'S DOG PREPARATIONS

Despite the abnormal conditions prevailing, there will always be an insistent demand for Sherley's Dog Preparations as they are recognised by Owners everywhere as the True Standard of Excellence. It would therefore be wise to stock your shelves to capacity so as not to run the risk of disappointing regular customers. We, on our part, will continue to support retailers to the utmost, and maintain the fullest supplies possible.

**STOCK YOUR SHELVES with Sherley's Tonic and Condition Powders Sherley's Worm Medicines Sherley's Aperient Powders Sherley's Skincure Sherley's Canker Lotion and Powder Sherley's Fit Tablets Sherley's Veterinary Ointment Sherley's Formalin Soap Lactol Biscuits Sherley's Dog and Cat Books**

**FREE DISPLAY MATERIAL.** Bold, attractive Display Cards for counter and window are supplied to all Sherley stockists, free and post free.

**DISCOUNT TERMS**

A discount of 10% on minimum £2 parcels will be in future deducted from invoice, rendering the invoice nett 30 days. Orders value £1 and over carriage paid.

Owing to the difficulty in arranging travellers' regular calls, journey accounts are discontinued. Accounts are payable 30 days nett.

**A. F. SHERLEY & CO. LTD., Boston Manor Road, Brentford, Middlesex**



**tinuous and Steadily Advertised Goods**
**R DESTROYING RATS AND MICE**

**DANYSZ VIRUS**

il Price (Protected) Net Wholesale Price
s for Rats and Mice, single tube, 2/- 15/- per doz.
3 tubes, 5/-
s for Mice only single tube, 1/6 9/-
3 tubes, 3/-
-expired tubes returned to us postage paid will be exchanged free of charge.

**Danysz Virus in Liquid Form**

Retail Price Wholesale Price
Bottles 6/- each .. .. .. 4/6 each
" 4/6 " .. .. .. 3/9 "

**HALLER'S EXTRACT OF SQUILL and DANZO RAT KILLER**

count off Retail Prices 25% Monthly Account, or 33⅓% Cash with Order.

| Retail | Monthly A/c | Cash with Order |
|---|---|---|
| l. tins 10/- | 7/6 | 6/8 |
| " 18/- | 13/6 | 12/- |
| " 80/- | 60/- | 53/4 |

**DANZO BEETLE POWDER**

**lestroying Blackbeetles, Cockroaches, Crickets, etc.**

ail Prices (Protected) Wholesale Prices
rtons 9d. each .. .. .. 6/9 per doz.
1/6 " .. .. .. 13/6
3/- " .. .. .. 27/- "
zo Beetle Powder will not deteriorate by keeping.

**CARRIAGE PAID ON ALL ORDERS**

*To be obtained from*

**HALLER LABORATORIES, LTD.**

**5 Borough High Street, LONDON, S.E.1**

ms: "Virudana, Sedist, London." Telephone: Hop. 2717



**LIQUINURE**

**LIQUID MANURE**

HIGHLY CONCENTRATED—CLEAN AND ODOURLESS — IN BOTTLES

Do not hesitate to take up this advertised line

*Write for terms and prices to*

**CLEMO MFG. CO. LTD.**

**27 BURNT OAK BDY.**
**EDGWARE, MIDDLESEX**

*Pharmacist and psychologist — the chemist is both. His customers' purchases not only go into the medical cupboard but sometimes give a glimpse of the skeleton there — troubles which the skill of the pharmacist does its best to overcome.*

There's the "**NERVY CUSTOMER.**" You know he is nervy, not so much fro his manner as from the specifics he buys. More and more of these people a realising what you, of course, have known for years — that Benger's, l resting his gastro-intestinal tract as well as his brain in sleep, is going a long wa towards a permanent cure for his "nerves." This is constantly stressed Benger's widely circulating and repeatedly appearing advertisements. It rapidly enlarging the range of Benger sales.

***. . . but you can invariably sell them —— BENGER'S***

**90% of your customers need Benger's and are being educated to ask for it**

BENGER'S LTD. HOLMES CHAPEL, CHESHIRE.

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The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28, ESSEX STREET, LONDON, W.C.2

MARCH 28 1942

**Advertisements in this supplement must be prepaid and should reach us not later than WEDNESDAY of week of issue. Box Office numbers cost 1/-. Late advertisements will be held over to following week.**

**OPTICAL TUITION**
FOR THE
S.M.C., B.O.A., and N.A.O. DIPLOMA Examinations
Particulars:—
**C. A. SCURR,** F.S.M.C., F.B.O.A., F.N.A.O., F.I.O., F.C.O., M.P.S.
50 HIGH STREET, BARNET, LONDON, N.

**TABLETS**
CONTRACTS WANTED FOR MANUFACTURING OR PACKING
*PROMPT DELIVERIES*
APPLY BOX 399/643 LONDON OFFICE OF THIS PAPER

*WE OFFER*
**JAFFA ORANGE OIL**
(HAND PRESSED)
SPOT AND AFLOAT
*ALSO MANY OTHER ESSENTIAL OILS*
CHEMICALS & ESSENTIAL OILS LTD.
ASTOR HOUSE, 95 ALDWYCH, LONDON, W.C.2
*Chancery 6116-7*

**OFFERED**
**French Chalk,** Gen. Superfine, 100-lb. bag, 26/-; Snow-white **Calcine Talc.,** cwt. bag, 30/- (Cosmetic Quality); Pulv. **Tragac.,** White, cwt. lots, 11/- lb., delivered; **Kaolin,** B.P., 1¼-cwt. bag, 25/- cwt.; Hand-picked Alex. **Senna Pods,** 5-lb. bag, 5/6 lb.; **Karaya Gum** Pulv., 4/6 lb., cwt. lots; **Carmine,** 50/- lb.; also **Citric Acid,** B.P.; **Tartaric Acid; Cream of Tartar; Bicarbonate of Soda; Gum Arabic Sorts; Acetone; Amyl Acetate; Distilled Stearine; Orange Shellac; Ammon. Chlor.,** 98/100 per cent.; **Phenazone;** all **Essential Oils,** original drums, etc.
*Prices on Application.* *Terms Cash.*
**HENSHAW, M.P.S., Wyke Regis, Dorset**

**TABLET MANUFACTURERS (London) can accept further contracts or sub-contracts to a total of three million tablets per week. Own materials tableted if required. Strict analytical control. Reasonable prices.**
**CDB/969 London Office of this Paper**

**FRAGRANT TONIC HAIR CREAM**
Makes the hair behave. Smart gold seal labels with above wording. 6s. per gross. Formula 20s.—Makes high-grade hair cream—easy to prepare—costs less than 1d. per ounce. All materials available. Ample stocks B.P. castor oil, agar agar, gum tragacanth, emulsifying wax, bees-wax, ceresine wax, spermaceti, bottles, screw caps, corks. Send for List. Terms Cash with Order.
**British Commercial Chemicals and Supplies, 347 Royal College Street, London, N.W.1.**

**ASPIRIN**
*Offers invited for quantities up to 10 cwt.*
**SHELLEYS LTD.**
CALDMORE - WALSALL

**1 TON HEXAMINE B.P. (Cwt. Bags)**
**5 CWT. DRY MALT EXTRACT (original tins)**
FOR SALE ex London Store
**Offers to P.P.P. (Pharmacy), LTD.**
**50 ISLINGTON PARK STREET, LONDON, N.1**

## AGENCIES

*7/6 for 36 words or less, 2d. for every additional word.*

NORTHERN Ireland.—Well-known Representative, with sound personal connexion Chemists, seeks further Agencies for Drugs, Dressings, all classes miscellaneous packed, and fancy goods. References from well-known Houses, car; Fidelity Bond. Write in first instance to CDB/971, London Office of this Paper.

## SHOPFITTERS

**MYERS OF OLD ST.** THE PHARMACY FITTERS

**ALL PHARMACY FITTINGS. New and Secondhand.**

***—From the single unit— to the complete Pharmacy***

*Write, phone or call*

**L. MYERS, 133-135 OLD ST., E.C.1. Phone: CLE 6381**


## SITUATIONS OPEN

*7/6 for 40 words or less, 2d. for every additional word.*

None of the advertisements below relates to a woman between 20 and 30 years unless such woman has living with her a child of her own under the age of 14; or is registered under the Blind Persons Acts; or has a Ministry of Labour permit to allow her to obtain employment by individual effort.

### RETAIL (HOME)

A GOOD position is offered to a young, energetic, Unqualified Assistant, male or female, who has experience of high-class pharmacy. B. Salter & Son, 34 Castle Street, Shrewsbury.

ASSISTANT, Qualified preferred, Dispensing and Counter. Easy hours. Please state age and salary required. Apply, Crawford, Chemist, Horley, Surrey.

ASSISTANT Pharmacist required by Middlesex County Council. Must hold one of qualifications of Pharmaceutical Society. Salary £200 p.a.; war bonus. Increment considered after one year. Whole-time duties under supervision of Medical Superintendent. Unestablished staff, subject to medical exam. Application forms obtainable from Medical Superintendent, "L. 1," Hillingdon County Hospital, nr. Uxbridge, Middlesex. Closing date April 11, 1942. (Women candidates between 20 and 31 years, inclusive, apply through Labour Exchange.)

ASSISTANT required, either sex. Qualified or Unqualified. Reliable Dispenser, with pleasant counter manner. Permanency with good wages. Other staff kept. Apply in confidence, giving the usual particulars to Nicoll, Chemist, High Street, Bridgnorth, Salop.

BRISTOL, Qualified Assistant, lady or gentleman (deferment assured); reliable Dispenser with pleasant counter manner, for middle-class business, chiefly N.H.I. Dispensing and quick counter trade. No Sunday or half-day duty. Permanency. State salary, photograph if possible. 399/645, London Office of this Paper.

CO-OPERATIVE SOCIETY, Sheerness. Qualified Lady or Gentleman (not liable for military service) required to manage branch Pharmacy. Pleasant conditions. Full details in first letter to the Managing Secretary, Sheerness & District Economical Co-operative Society, Ltd., 100 High Street, Sheerness, Kent.

GRIMSBY. Qualified Manager required, male or female, for middle-class progressive business. Living accommodation available if required. Give particulars in first letter. 400/671, London Office of this Paper.

ILKESTON. Capable Qualified Manager required for Branch Pharmacy. Comfortable position; good salary offered. 400/669, London Office of this Paper.

LADY Pharmacist required for retail business in Bristol; salary offered £6 per week. Write, giving full particulars of age, experience and when disengaged, to Mr. Tydeman, 5 Nelson Street, Bristol.

LEEDS. Taylors British Chemists have vacancies for Qualified and Unqualified Assistants, male or female, for City and Suburban shops. Apply Retail Staff Dept., Burley Hill, Leeds.

LEWIS & BURROWS have vacancies for men and women Assistants, Qualified and Unqualified. Apply, in writing, to 146 Holborn, London, E.C.1.

MANAGERS. Vacancies will shortly exist for Qualified Managers at Branches in Evesham, Dorking, Bexhill, Worthing, Sudbury, Cowes, Southampton. Good salaries and commission. Apply giving particulars of experience, salary required, etc., to Retail Drug Department, Timothy Whites & Taylors, Ltd., 70 Vauxhall Bridge Road, London, S.W.1.

MELTHAM, near Huddersfield. Taylors Chemists have vacancy for Branch Manager. Comfortable working, reasonable salary offered. Apply, Retail Staff Dept., Burley Hill, Leeds.

NEAR Leicester. Required Qualified gentleman, over age or otherwise exempt military service. Permanency or for duration as desired. Please state salary, references, etc. 399/629, London Office of this Paper.

PHARMACIST (man or woman) required (for duration of war) by London County Council at Sutton (L.C.C.) hospital, Brighton Road, Sutton, Surrey. Must possess Pharmaceutical Society's qualification. Salary £225 a year, plus cost-of-living addition. Annual increments may be granted. Married women eligible. For application form, returnable by April 13, send stamped addressed foolscap envelope to Medical Officer of Health (B/A), Mental Health Services, West Park Hospital, Epsom. Surrey.

QUALIFIED Chemist required to manage branch shop in York (exempt military service). Apply, Richardson, 77 Bootham, York.

QUALIFIED Assistant, lady or gentleman, with good Dispensing experience; able to take Management of Family and Dispensing business. Apply, with full particulars, age, wages, and experience. Davis, Sisleys, Ashleworth, Gloucester.

QUALIFIED Chemist, either male over 50 or female over 40, required for Drug Counter in chain stores. Blackpool, Scunthorpe and Manchester. Write full details of age, experience and present salary. 400/653, London Office of this Paper.

SMETHWICK, Birmingham. Vacancy arises for Management of busy Branch Pharmacy. Good salary, excellent conditions. Give particulars in first letter. 400/673, London Office of this Paper.

STONE, Staffs. A vacancy occurs in this pleasant, small country town for Qualified Manager for mixed business. Good salary offered, reasonable working hours and a comfortable position assured to suitable applicant. 400/670, London Office of this Paper.

TAYLORS BRITISH CHEMISTS will shortly have vacancies for Qualified Managers and Assistants, male or female, in Ilkeston, Stone, Smethwick, Thorne, Manchester, Cumberland. Apply Retail Staff Dept., Burley Hill, Leeds.

TAYLORS BRITISH CHEMISTS have vacancies for Qualified Managers and Assistants in Glasgow and other parts of Scotland. Please give full particulars in first letter, stating best time and day for interview to Austin, 1 St. Enoch Square, Glasgow, C.1.

HORNE, near Doncaster. Manager required for Branch Pharmacy. Good salary offered. Give rticulars in first letter. 400/672, London Office of is Paper.

NQUALIFIED Assistant required (male or female). Dispensing and Counter. Good hours d conditions. State age, experience, salary re- ired, and when free, to Manager, Pharmacy partment, Ipswich Industrial Co-operative Society, d., 38 Carr Street, Ipswich.

NQUALIFIED. A vacancy exists at our Cam- bridge branch for an Unqualified Assistant ale or female) with Dispensing experience. Good ary, commission; permanency. Apply in writing The Retail Drug Department, Timothy Whites Taylors, Ltd., 70 Vauxhall Bridge Road, London, V.1.

NQUALIFIED. A Vacancy exists at our Glouces- ter Branch for an unqualified Assistant (male female) with dispensing experience. Good salary d commission. Permanency. Apply in writing the Retail Drug Department, Timothy Whites Taylors, Ltd., 70 Vauxhall Bridge Road, London, V.1.

ANTED at once, Qualified Manager or Assistant for N.H.I. and private Dispensing and Family siness in the West Riding, Yorks. Good wages bonus offered. Apply at once. 400/675, London ce of this Paper.

ANTED, Qualified Chemist Manager. No Sunday duty. Apply, Hodgson & Hepworth, d., Doncaster.

ANTED, Qualified Chemist (man or woman), not liable for military service. Permanency; d salary; safe area. No Sunday or holiday duty. te, The Pharmacy, Crosshills, Keighley, York- e.

INDSOR.—Savory & Moore, Ltd., require a Qualified Assistant at their branch at Windsor. is a very high-class business and offers con- rable scope for excellent experience. Full parti- rs, age, experience, salary expected and when to H. F. Stapley, 61 Welbeck Street, London, W.1

## VACANCIES FOR LOCUMS

CUM, fully Qualified, required, 2 weeks between August 3rd and September 7th to take full ge of small department. No Sunday duties, mond. Apply giving full particulars and salary ired to Coppen Bros., Ltd., 14–16 Rutherford et, Vincent Square, Westminster, S.W.1.

## WHOLESALE

SMALL private firm of Wholesale Druggists require a Chemist to take charge of the manu- ure of Medicinal preparations, one living in chester or district preferred. Apply, stating and wage required, to CDB/972, London Office is Paper.

PERIENCED Pill Maker required, exempt military service. Progressive opportunity. experience and wages required. Secretary, T. Kirby & Co., Ltd., Belton Road, Willesden n, N.W.2.

DICAL VISITATION.—Manufacturers of Ethical Properietaries require representatives ropaganda to doctors and keeping touch with chemists. Full details of previous experience, covered, and liability for call-up. 400/661, on Office of this Paper.

MIDLANDS and S. Wales. Old-established Manu- facturing House requires the services of a Representative with some Retail experience, exempt military service, to work and extend existing connec- tion. State territory covered, experience, and nature of goods previously carried, age, remuneration required and when available, all in first letter, which will be treated in confidence. CDB/968, London Office of this Paper.

QUALIFIED Chemist wanted, male or female, for North London factory. Good salary. 400/674, London Office of this Paper.

REQUIRED Laboratory Assistant for manufacture of Manicure Preparations, etc. Exempt service. Unqualified Retail Chemist willing to learn would be suitable. Write, 400/663, London Office of this Paper.

TRAVELLER wanted with good connexion amongst Wholesale and Retail Chemists, for nationally advertised lines. London. Write par- ticulars, 400/660, London Office of this Paper.

WHOLESALE and Shipping Chemist. Wanted, Qualified Assistant, one with previous exper- ience, though not essential. Also Unqualified Assistant or one with experience of Wholesale trade. Replying, stating age, experience, and salary required, W. Bates & Co., Ltd., 25 Oxford Street, Southampton.

YOUNG Lady required for Invoice Dept. in London Office of Manufacturing Chemists (City). State salary required and experience, if any, to 400/654, London Office of this Paper.

## SITUATIONS WANTED

*2/6 for 18 words or less, 1d. for every additional word.*

**None of the advertisements below relates to a woman between 20 and 30 years unless such woman has living with her a child of her own under the age of 14; or is registered under the Blind Persons Acts; or has a Ministry of Labour permit to allow her to obtain employment by individual effort.**

## RETAIL

DIRECTORSHIP required with good Wholesale or Manufacturing house. Good worker, Un- qualified, with 22 years' good Retail experience. Knowledge of all branches. Total abstainer, honest and trustworthy. State capital required. Age 38. CDB/974, London Office of this Paper.

GENT (47), over 20 years' varied experience, own business, Wholesale, Retail, seeks post as Manager or assist ditto, used to staff, will consider to manage good-class Drug Stores or would travel (car driver); excellent references, Fidelity Bond, or ample security. H. W. D., 216 Hill's Road, Cambridge.

LADY requires post in or near Hastings preferred. Many years' experience in Dispensing and Pharmacy. Would consider the management of Drug Stores or Health and Herbal Stores. Highest references. Johnson, 24 Lower Park Road, Hastings.

UNQUALIFIED (38), experienced in all branches requires Directorship with good prospects Good Dispenser and Counter man; total abstainer, capable and trustworthy. State capital required and full particulars. CDB/973, London Office of this Paper.

## LOCUMS SEEKING ENGAGEMENT

GENTLEMAN, 35, high-class London and Subur- ban experience, free 30th March onwards. Highest credentials; unregistered. 400/666, London Office of this Paper.

## WHOLESALE

A FIRST-CLASS Representative, covering Lancashire, Yorkshire, and North Wales, requires additional agency. Live connexion, built up by 18 years' salesmanship. Pharmaceutically trained. 399/644, London Office of this Paper.

ADVERTISER (33), experienced Sales Director, Organiser, Staff Control, etc., desires progressive position with House of repute. Exempt from military service. 400/676, London Office of this Paper.

NATIONALLY important work required; active man under 40; exempt. Several years inside and outside Sales experience. Box CDB/975, London Office of this Paper.

REPRESENTATIVE, exempt military service, now demonstrating specialised apparatus to most Pharmaceutical manufacturers, could carry also other laboratory equipment or similar lines. 400/668, London Office of this Paper.

SMART Gentleman; 33; exempt military service. First-class Salesman with ability and personality, wishes to join Wholesale or Manufacturing House as Medical or Pharmaceutical Representative or similar position of trust. Own car. 400/677, London Office of this Paper.

## MISCELLANEOUS SALES

*12/6 for 60 words or less, 1/- each additional 10 words or less,*

BOTTLES. Suitable for Brilliantine, Hand Cream, Nail Varnish Remover, etc., etc. 1 oz., tall square bottle, wide mouth, with black bakelite cap, 2s. 6d. doz. Cash with order, carriage forward. H. S. Bottle Co., 29 Sherwood Hall, East End Road, London, N.2.

GUM Tragacanth Powder, B.P., pure white, 21s. per pound. Post paid. Cash with order. G. E. Betterton, 47 St. Leonard's Court, East Sheen. London, S.W.14.

LADIES' Toilet Mirror, in Solid Leather Case, Glass size, 3½ in. × 2½ in. Price, 10s. dozen, plus 33⅓ per cent. tax., postage paid. Sample sent on receipt 1s. 3d. Clarke & Co., 35 Thetford Road, Ashford, Middlesex. Telephone 3012.

OFFERING Pil. Opii gr. 1. 500,000; Pil. Opii Compound 500,000; Conf. Rosae Gall. 40 lb.; Vin. Opii; Pulv. Scammoni Co.; Ung. Hyd. Ox, Rub. 40 lb.; Calomel Cream 100 lb.; Pulv. Antimonialis; Emp. Canthar 144 × 3 yd. tins; 60 lb. Manganese Dioxide. Ensign de Luxe Post Card, with leather case, and 4 Ext. Tripod. Offers invited for whole or part. Pharmacist, 137 Half Moon Lane, S.E.24.

SOFT Soap, amber, odourless, made with best vegetable oils, 50s. cwt.; 26s. ½ cwt. Free iron drums, cash with order; immediate delivery. No samples sent out. Shortage labour, packing materials. Ambrose, 7 Denmark Road, Reading, Berks.

## FOR SALE (Retailers' Surplus)

*7/6 for 36 words or less, 2d. for every additional word.*

1 CWT. AIRTIGHT TINS IN CASES. Used only once for packing Milk Powder. Fully seamed tin with circular press-in lid, all free from rust. Strong cases slightly soiled externally. Apply CDB/913, London Office of this Paper.

## WANTED

*7/6 for 36 words or less, 2d. for every additional word.*

ADVERTISER wishes to Purchase a Rotar Tablet Machine in any condition, or woul consider Hiring a suitable machine. Send full detail 400/667, London Office of this Paper.

ADVERTISER wholesaler wishes to contact regi tered manufacturer of face powder, bat crystals, perfumes, nail varnish. Also requires ½-o to 16-oz. jars, and bottles suitable haircream, bri iantine, nail varnish, etc. 398/604, London Office this Paper.

CETYL Alcohol, Stearyl Alcohol, or Unsulphonat Lanette Wax. State quantity offered, pric and maker's name if known. Tokalon, Ltd., South Street, Reading.

ICILMA Water required, please. Any size quantity. Price no importance. Please forwa or write to Nicoll, Chemist, Bridgnorth, Salop.

OILS or Fats and Glycerine, also Block Steari wanted. Box 56, Pool's, Brettenham Hous Lancaster Place, W.C.2.

SACCHARIN Tablets wanted. Any quanti Write Dewhurst's, 63 Queen Street, Gr Harwood.

WANTED by England's largest photograpl dealers, All Miniature Cameras, extra len and accessories, Rolleiflex, Leica, Contax, Ikont etc.; also Microscopes and Cine Projectors. Hig prices guaranteed. Wallace Heaton, Ltd., 127 N Bond Street, W.1.

WANTED, Derelict Paper Liner Bags, 8½ × 2½ in. × 1½ in., or anything near. La quantities required. Also similar sized Carto 400/655, London Office of this Paper.

WANTED, odd lots of 1 and 2 oz. Cream Po Witch-hazel, Perfumes, Peppermint, T ethanolamine, pure Powdered Soap and Cocoa Oil. 400/664, London Office of this Paper.

WANTED 1, 2, and 4 oz. Bottles with bakel caps; also white and black, opal amber a clear Jars. Send prices and details, 400/662, Lon Office of this Paper.

## BUSINESSES FOR DISPOSA

*7/6 for 40 words or less, 2d. for every additional word*

BUSY town, Hampshire, safe area. Drug Sto Kodak, Heath & Heather agencies; turn £2,000; gross profit 40 per cent.; near G. Shop, house (five rooms); rent £65; lease, vac possession. Price £500 and stock at valuation (a £200). Opening qualified Optics. 400/665, Lon Office of this Paper.

## LIMITED COMPANY REGISTRATION

IF you are really interested in the question of "Safety First" as applied to trading, I invite you to follow in wake of 400 other chemist clients and let me register your business as a Private Limited Company, at a fee that will surprise you. Details free. Queries invited. A. BERNARD SLACK, 721 Princess Road, Manchester, 20.

Printed in Great Britain for the Proprietors by THE PITMAN PRESS, Lower Bristol Road, Bath, and Published weekly by the Propri Morgan Brothers (Publishers), Limited, at 28 Essex Street, Strand, London, W.C.2—*March* 28, 1942

## *A Question of INITIATIVE*

*A bold, well-timed stroke . . . Resolute action preceded by efficient organisation is a good augury for ultimate success in the future.*

Over two years of war-time conditions ave made us fully aware of the necessity f long-term planning.

Whilst absorbed in the difficulties of pplies to meet the increased demand for onsanto products, we are nevertheless keeping an ever-watchful eye on future developments.

Experience has taught us that, whatever the magnitude of to-day's task, time spent on preparing that of to-morrow is indeed well spent.

Our customers will find that when the time comes to take the initiative in the right direction, we shall be fully prepared and equipped to play a successful part.

We anticipate, with some measure of confidence, that our efforts to serve both old and new friends in these difficult times will merit a continuance of the relationship under more normal and happier conditions.

**IONSANTO CHEMICALS LIMITED**

IABON, WREXHAM, DENBIGHSHIRE. Telephone: Ruabon 3191

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The Medical Profession prescribe —

Felsol (Regd)

The ethical medical Preparation for the treatment of Asthma

ALL WHOLESALERS CAN SUPPLY

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WIGTON HOUSE, 206-212 ST JOHN STREET, CLERKENWELL, LONDON, E.C.1.

Telephone, CLErkenwell, 5862 Cables, "Felsol," Smith, London.

Printed in Great Britain for the Proprietors by THE PITMAN PRESS, Lower Bristol Road, Bath, and Published weekly by the Proprietors, Morgan Brothers (Publishers), Limited, at 28 Essex Street, Strand, London, W.C.2—*March* 28, 1942